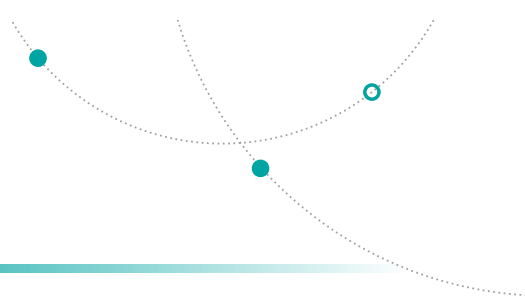




Filter Selection Guide



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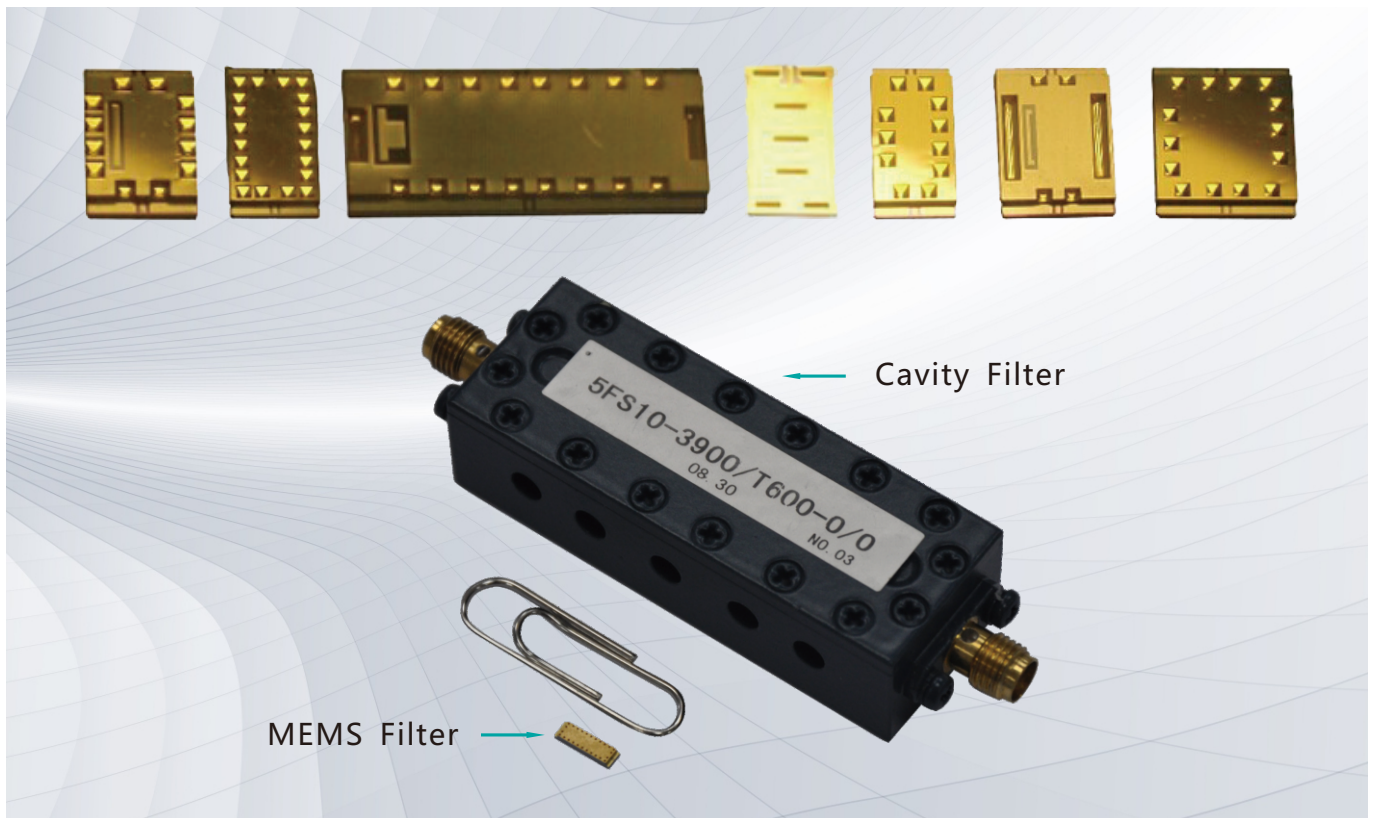
INTRODUCTION

Microelectromechanical systems (MEMS) (also written as micro-electro-mechanical, or Micro Electro Mechanical) is a technology of very small mechanical devices, and it merges at the nano-scale into nanoelectromechanical systems (NEMS) and nanotechnology. MEMS are made of components between 1 to 100 micrometers in size (i.e. 0.001 to 0.1 mm) and MEMS devices generally range in size from 20 micrometers (20 millionths of a meter) to a millimeter.

MEMS filter is a full-shielded Silicon cavity filter, which adopts ultra high accuracy MEMS processing, Silicon wafer bonding, and TSV. Frequency covers L to Ka Band, will extend to 40GHz or higher.

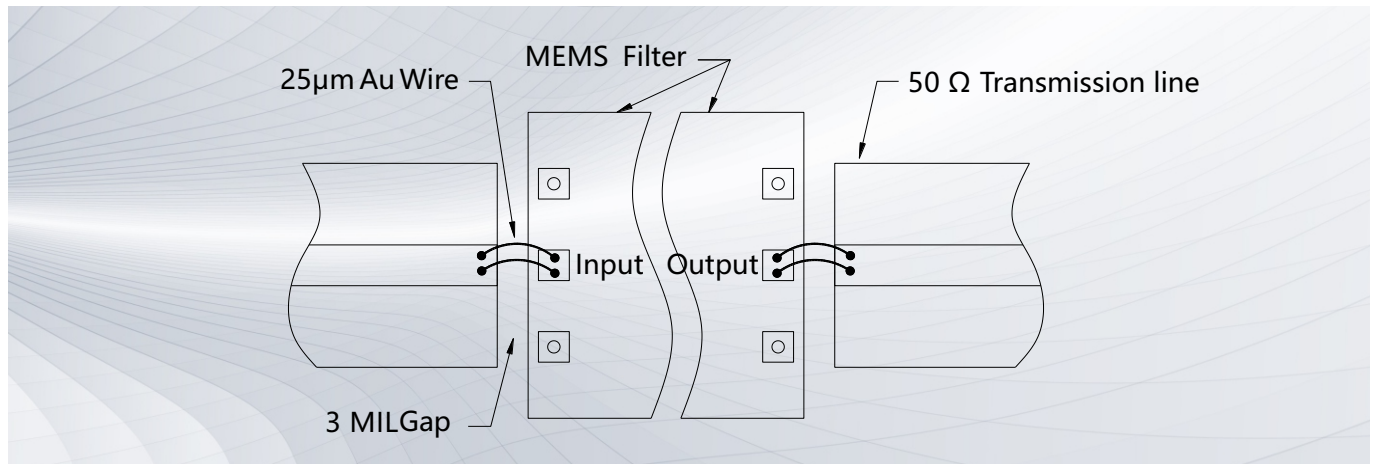
MEMS filters have very small size, which is a few hundredths of regular air cavity filter. It is a good replacement for regular air cavity filter from performance perspective because of its high Q-value and high rejection, so it is a new choice for multi-chip miniature module requirements. MEMS filters have excellent consistency from both unit to unit and lot to lot.

MEMS filters can be used in many applications, such as Microwave Telecommunications, 5G Communications, IoT, Radar, ECM, Aerospace, Navigation etc.



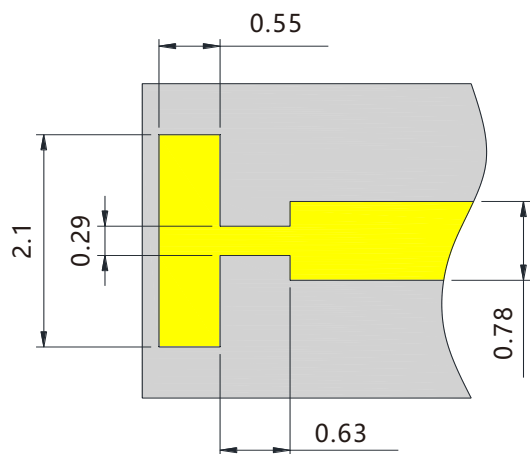
APPLICATION INSTRUCTIONS

1. Recommended Assembly Diagrams

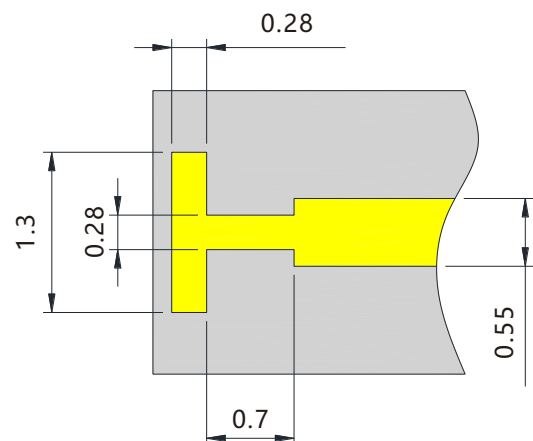


2. The chip is back-metalized and can be die mounted with AuSn eutectic performs or with electrically conductive epoxy (for example ME8456).
3. The die should be assembled on carriers like Kovar or Mu-Cu which have same Coefficient of thermal expansion. (2.9ppm/°C) with Silicon, thickness 0.2mm max.
4. Handle the chips in a clean environment. DO NOT attempt to clean the chip using liquid cleaning systems.
5. Handle the chip along the edges with a vacuum collet or with a sharp pair of bent tweezers.
6. Recommended to use T structure as below for bonding.

Rogers 5880, 10mil



Rogers 4350, 10mil



Part Number	Low Freq. (GHz)	High Freq. (GHz)	Max. IL@ f0 (dB)	Min Attenuation (dB)	Size (mm)	Datasheet
SiMF2R5/1-9D2	2	3	3.8	≥40dB@1.4&3.6GHz	7×10.2×0.84	
SiMF3/2-10D2	2	4	3.8	≥40dB@0.8&5GHz	7×8.5×0.84	
SiMF2R5/R8-9D2	2.1	2.9	3.5	≥40dB@1.6&3.5GHz	7×10.2×0.84	
SiMF2R7/1-7D2	2.25	3.2	3	≥40dB@1.6&4GHz	7×10.5×0.84	
SiMF2R65/R3-6D2	2.38	2.9	3.5	≥40dB@1.95&3.4GHz	7×10.5×0.84	
SiMF3/1-7D1	2.5	3.5	2	≥40dB@1.8&4.3GHz	7×8.7×0.84	
SiMF3R2/1R4-9D2	2.5	3.9	2.5	≥40dB@1.9&4.7GHz	7×8.2×0.84	
SiMF2R7/R4-6D3	2.55	2.95	3.5	≥40dB@2.12&3.45GHz	7×9.4×0.84	
SiMF2R8/R4-6D3	2.6	3	2.5	≥40dB@2.1&3.4GHz	6.5×10.5×0.84	
SiMF2R9/R4-7D3	2.7	3.1	2.7	≥40dB@2.3&3.6GHz	7×9×0.84	
SiMF2R93/R5-6D2	2.7	3.15	2.2	≥40dB@2.2&3.6GHz	7×7.5×0.84	
SiMF3R1/R8-7D2	2.7	3.5	1.9	≥40dB@2.15&4GHz	7×9×0.84	
SiMF3R75/2R1-12D2	2.7	4.8	2.5	≥40dB@1.55&5.75GHz	10.4×7.1×0.84	
SiMF2R85/R3-7D4	2.75	2.95	2.8	≥40dB@2.3&3.4GHz	7×10×0.84	
SiMF3R4/1R3-7D3	2.8	4.1	1.5	≥40dB@2&5.2GHz	7×8×0.84	
SiMF3R5/1-8D2	3	4	1.8	≥40dB@2.55&4.5GHz	7×7.2×0.84	
SiMF4/2-8D3	3	5	1.2	≥40dB@2.0GHz&6.75GHz	7×7×0.84	
SiMF3R5/1-7D2	3	4	2.5	≥40dB@2.25&4.7GHz	7×8×0.84	
SiMF3R7/1R3-7D2	3.05	4.5	2	≥40dB@2.2&5.7GHz	7×7.5×0.84	
SiMF3R15/R16-4D3	3.07	3.23	3	≥40dB@2.6&3.8GHz	7×6.4×0.84	
SiMS3R3/R5-7D3	3.1	3.5	3	≥40dB@2.5&3.9GHz	9×9×0.42	
SiMF3R5/R8-8D2	3.1	3.9	2	≥40dB@2.65&4.4GHz	7×7.3×0.84	
SiMF3R3/R2-7D3	3.2	3.4	4	≥40dB@2.8&3.85GHz	7×8.2×0.84	
SiMF3R6/R4-7D3	3.4	3.8	4	≥40dB@2.9&4.2GHz	7×8×0.84	
SiMF3R8/R7-6E2	3.45	4.15	2	≥40dB@2.7&5.4GHz	7×5.5×0.84	
SiMF4/1-7D1	3.5	4.5	2.5	≥40dB@2.8&5.3GHz	7×7×0.84	
SiMF4R06/R8-7D2	3.66	4.46	2.8	≥40dB@3.1&5GHz	7×6.8×0.84	
SiMF4R05/R5-7D3	3.8	4.3	3.2	≥40dB@3.3&4.7GHz	7×7.3×0.84	
SiMF5/2R2-10D2	3.85	6.15	2	≥40dB@3.1&7.1GHz	7×5.5×0.84	
SiMF4R5/1-7D3	4	5	1.7	≥40dB@3.3&5.6GHz	7×6.3×0.84	
SiMF5/2R2-3	4	6	1.8	≥40dB@3.1&6.9GHz	7×5.60×0.84	
SiMF5/2R2-8D3	4	6	1.5	≥40dB@3&7.45GHz	7×5.6×0.84	

Part Number	Low Freq. (GHz)	High Freq. (GHz)	Max. IL@ f0 (dB)	Min Attenuation (dB)	Size (mm)	Datasheet
SiMF4R2/R2-5D4	4.15	4.35	4	≥40dB@3.7&4.85GHz	7×6.4×0.84	
SiMF4R35/R3-5D2	4.2	4.5	3.5	≥40dB@3.75&5.05GHz	7×6×0.84	
SiMF4R7/1-7D2	4.25	5.15	2.5	≥40dB@3.5&5.8GHz	7×6.5×0.84	
SiMF4R6/R4-5D3	4.4	4.8	3	≥40dB@3.9&5.15GHz	8×7.5×0.84	
SiMF5/1-7D1	4.5	5.5	3	≥40dB@3.7&6.2GHz	7×5.7×0.84	
SiMF5R25/1R5-8D2	4.5	6	1.5	≥40dB@3.8&6.8GHz	7×5.6×0.84	
SiMS4R62/R2-6D5	4.55	4.75	4	≥40dB@4&5.1GHz	9×9×0.42	
SiMS5/R4-7D3	4.9	5.2	2	≥40dB@3.4&6.3GHz	9×7×0.42	
SiMF5R55/1R1-2	5	6.1	2	≥40dB@4.1&6.7GHz	6.5×5.5×0.84	
SiMS6R5/3-9D2	5	8	0.8	≥40dB@2.5&9.3GHz	7.5×5.0×0.42	
SiMF7/4-10D1	5	9	0.9	≥40dB@3&10.5GHz	7×4.4×0.84	
SiMF7R25/4R5-9D1	5	9.5	2	≥40dB@3.2&11.2GHz	7×4.4×0.84	
SiMF5R15/R3-7D4	5.05	5.25	4.5	≥40dB@4.5&5.8GHz	7×6.5×0.84	
SiMF5R55/R7-7D3	5.2	5.8	4.5	≥40dB@4.5&6.3GHz	7×5.5×0.84	
SiMF5R7/1R1-8D2	5.2	6.3	2.5	≥40dB@4.5&6.95GHz	7×5.5×0.84	
SiMF5R4/R4-6E4	5.25	5.5	2.5	≥40dB@4.7&5.94GHz	7×6×0.84	
SiMF5R6/R6-7D2	5.3	5.9	2.3	≥40dB@4.7&6.35GHz	7×5.6×0.84	
SiMS5R6/R6-6D3	5.4	5.9	3	≥40dB@4.7&6.4GHz	6.5×6.5×0.42	
SiMF6R85/2R8-8D2	5.4	8.3	1.7	≥40dB@4.3&9.2GHz	6.5×4.5×0.84	
SiMF6R9/2R8-6D1	5.5	8.3	1.5	≥40dB@3.5&10.3GHz	6×4×0.84	
SiMF6R7/2R1-9D2	5.65	7.75	2	≥40dB@4.8&8.5GHz	7×4.2×0.84	
SiMS6/R6-6D3	5.7	6.3	2.5	≥40dB@5.2&6.75GHz	7×6.2×0.42	
SiMF7/2R2-7D2	5.9	8.3	1.6	≥40dB@4.7&9.2GHz	7×4.7×0.84	
SiMF9/6-7D2	6	12	1	≥30dB@3.0&14GHz	5.5×4.0×0.84	
SiMF6R2/R4-6E3	6	6.4	2	≥40dB@5.5&6.9GHz	6.5×5.1×0.84	
SiMF7R25/2R5-7D1	6	8.5	1.5	≥40dB@4.8&10.1GHz	7.0×4.2×0.84	
SiMF9/6-10D1	6	11.9	1	≥40dB@3.2&12.6GHz	7×3.7×0.84	
SiMF6R6/1R2-7D3	6	7.2	2	≥40dB@5.1&8GHz	7×4.6×0.84	
SiMF7/2R1-7D2	6	8	1.8	≥40dB@5.1&8.9GHz	7×4.6×0.84	
SiMF7R1/1R9-9D2	6.1	8	1.6	≥40dB@5.3&9GHz	7×4.2×0.84	
SiMS6R4/R4-6D3	6.3	6.5	2.2	≥40dB@5.8&7.2GHz	8×6×0.42	
SiMF6R6/R4-6E3	6.4	6.8	2.3	≥40dB@5.9&7.4GHz	6.6×4.9×0.84	

Part Number	Low Freq. (GHz)	High Freq. (GHz)	Max. IL@ f0 (dB)	Min Attenuation (dB)	Size (mm)	Datasheet
SiMF6R75/R5-7D3	6.5	7	2.7	≥40dB@5.9&7.55GHz	7×4.7×0.84	
SiMS8/3-9D2	6.5	9.5	1.8	≥40dB@4.0&11.6GHz	7.5×4.0×0.42	
SiMF6R85/R5-8D3	6.6	7.1	3	≥40dB@6&7.7GHz	7×4.9×0.84	
SiMF6R98/R65-6D3	6.65	7.3	3	≥40dB@6&8GHz	7×4.3×0.84	
SiMF7/R4-6E3	6.8	7.2	2.3	≥40dB@6.3&7.7GHz	6.6×4.7×0.84	
SiMF7R4/1R2-7D3	6.8	8	2	≥40dB@5.8&8.8GHz	7×4.6×0.84	
SiMF7R7/1R6-9D2	6.8	8.4	2.5	≥40dB@5.7&9.4GHz	7×4.5×0.84	
SiMF9/4-11D2	6.85	11	1.5	≥40dB@5.8&12.05GHz	7×3.6×0.84	
SiMF10R1/6R2-8D2	7	13	1.2	≥30dB@4.25&15GHz	7×3.5×0.84	
SiMF8R25/2R7-9D2	7	9.5	1.1	≥40dB@5.8&10.3GHz	7×3.4×0.84	
SiMF8R5/3-9D1	7	10	1.3	≥40dB@5.8&11.1GHz	7×3.2×0.84	
SiMF8R2/2R3-9D2	7.15	9.25	2	≥40dB@6.2&10GHz	7×3.6×0.84	
SiMS7R4/R4-6D4	7.2	7.6	2.5	≥40dB@6.7&8GHz	8.5×6.0×0.42	
SiMF8/1-7D3	7.4	8.6	2.6	≥40dB@6.6&9.5GHz	7×4×0.84	
SiMF8R4/2-6D2	7.4	9.4	1.5	≥40dB@5.8&10.6GHz	6.5×4×0.84	
SiMF8R7/2R5-7D2	7.5	9.95	1.6	≥40dB@6&11.05GHz	7×4.2×0.84	
SiMF8R2/1R2-8D3	7.5	8.8	1.7	≥40dB@6.7&9.7GHz	7×3.9×0.84	
SiMS7R8/R4-6D4	7.6	8	3	≥40dB@7.1&8.4GHz	8.5×6.0×0.42	
SiMF9/2R6-6D1	7.7	10.3	1.5	≥40dB@5.8&11.8GHz	6×3.2×0.84	
SiMF13/10-10D2	7.7	17.7	0.9	≥40dB@4GHz, ≥25dB@21GHz	7×3×0.84	
SiMF8R88/2R24-9D2	7.75	10	1.5	≥40dB@6.95&11.15GHz	8.5×3.3×0.84	
SiMF10/4R4-10D3	7.8	12.2	1.1	≥40dB@6.8&14GHz	7×4×0.84	
SiMF8R4/1R2-8D2	7.8	9	2.5	≥40dB@7&10GHz	7.6×3.9×0.84	
SiMF9/2R25-7D2	7.85	10.15	1.5	≥40dB@6.6&11.2GHz	7×4×0.84	
SiMF9/2R2-7D2	7.85	10.15	1.8	≥40dB@6.4&11.3GHz	7×4×0.84	
SiMF11R9/7-8D2	7.9	15.4	1	≥20dB@5.3&16.4GHz	7×3.5×0.84	
SiMF8R1/R5-3	7.9	8.4	2.8	≥40dB@7.2&9.1GHz	7×4.0×0.84	
SiMF9R1/2R2-8D2	8	10.2	2	≥40dB@6.8&11.3GHz	7×3.5×0.84	
SiMF9R2/2R4-7D1	8	10.4	2	≥40dB@6.9&11.6GHz	7×3.6×0.84	
SiMS9R25/2R5-9D1	8	10.5	1.5	≥40dB@6.45&12.05GHz	8.5×5.0×0.42	
SiMS10/4-11D2	8	12	2	≥40dB@6.4&13.5GHz	8×3.4×0.42	
SiMF9/2-8D2	8	10	2.5	≥40dB@6.9&10.9GHz	7×4×0.84	

Part Number	Low Freq. (GHz)	High Freq. (GHz)	Max. IL@ f0 (dB)	Min Attenuation (dB)	Size (mm)	Datasheet
SiMF9R5/3-8D2	8	11	3.3	≥40dB@6.9&12.3GHz	7×3.5×0.84	
SiMF10/4-9D1	8	12	1	≥40dB@6.8&13.6GHz	7×3.2×0.84	
SiMF8R55/1R1-10D3	8	9.1	2.7	≥40dB@7.4&9.8GHz	8×4×0.84	
SiMF8R75/1R5-8D3	8.1	9.6	2.5	≥40dB@7.3&10.5GHz	7×5.5×0.84	
SIMS8R2/R35-6D3	8.1	8.4	3.5	≥40dB@7.6&8.85GHz	9.5×6.8×0.42	
SiMF8R3/R4-6E3	8.15	8.4	3.5	≥40dB@7.3&9.05GHz	7×4.0×0.84	
SiMF9R45/2R4-2	8.25	10.65	2	≥40dB@7&12GHz	7×3.6×0.84	
SiMF8R4/R1-4E3	8.38	8.42	3.5	≥40dB@7.9&9GHz	7×4×0.84	
SiMF8R9/1-7D3	8.4	9.4	2.5	≥40dB@7.5&10.2GHz	7×4.3×0.84	
SiMF9/1R2-7D4	8.4	9.6	2	≥40dB@7.4&10.3GHz	7×3.9×0.84	
SIMS8R6/R4-6D4	8.4	8.8	3.5	≥40dB@7.8&9.25GHz	8.5×5.5×0.42	
SiMF9R5/2-6D2	8.45	10.45	1.4	≥40dB@6.7&12.05GHz	7×3.6×0.84	
SiMF9R15/1R3-8D3	8.5	9.8	3	≥40dB@7.8&10.6GHz	8×4×0.84	
SiMS10/3-9D2	8.5	11.5	1.5	≥40dB@5.8&13.3GHz	7.5×3.5×0.42	
SiMF8R8/R4-7D4	8.6	9	2.5	≥40dB@7.85&9.8GHz	7.7×4.1×0.84	
SiMF9/R8-6E3	8.6	9.4	2	≥40dB@8&10.1GHz	7×4.2×0.84	
SiMF10R54/4R18-3	8.6	12.5	1.5	≥40dB@6&14.2GHz	7×4.5×0.84	
SiMF8R8/R1-4E3	8.78	8.82	3.5	≥40dB@8.4&9.3GHz	7×4×0.84	
SiMS9/R4-6D4	8.8	9.2	3.5	≥40dB@8.1&9.7GHz	8.5×5.5×0.42	
SiMF12R5/7-11D2	8.8	16	1.5	≥40dB@7.1&17.5GHz	7×3×0.84	
SiMS9R17/R55-6D3	8.9	9.45	2.5	≥40dB@7.7&12GHz	8.5×6×0.42	
SiMF9R35/R7-6D1	9	9.7	2.5	≥40dB@8.0&10.4GHz	6.5×3.6×0.84	
SiMF9R4/R7-6E3	9	9.7	2	≥40dB@8.4&10.4GHz	7×3.0×0.84	
SiMF9R5/1-5D2	9	10	1.4	≥40dB@7.4&11.2GHz	5.5×3.2×0.84	
SiMS9R6/1R2-8D3	9	10.2	3.4	≥40dB@8.2&10.95GHz	9×4.5×0.42	
SiMF11R5/5-11D1	9	14	1	≥40dB@5.4&16.7GHz	7×3×0.84	
SiMF9R35/R4-6E3	9.15	9.55	3.5	≥40dB@8.65&10.1GHz	7×3.8×0.84	
SiMF9R2/R1-4E4	9.18	9.22	3.5	≥40dB@8.6&9.8GHz	7×3.8×0.84	
SiMF9R8/1R2-8D3	9.2	10.4	2.5	≥40dB@8.15&11.3GHz	7×3.2×0.84	
SiMS10/1R6-8D2	9.25	10.75	2.5	≥40dB@8.4&11.7GHz	9.0×4.4×0.42	
SiMF9R55/R4-4E3	9.4	9.7	3	≥40dB@8.0&12.05GHz	7×4×0.84	
SiMS9R65/R6-6D3	9.4	9.9	2.5	≥40dB@8.4&12GHz	8.5×6×0.42	

Part Number	Low Freq. (GHz)	High Freq. (GHz)	Max. IL@ f0 (dB)	Min Attenuation (dB)	Size (mm)	Datasheet
SiMF9R9/1R1-6E3	9.4	10.5	1.5	≥40dB@8.5&11.4GHz	6.5×4×0.84	
SiMF11R5/4-9D1	9.4	13.5	1.3	≥40dB@7.8&15.8GHz	7×3.5×0.84	
SiMS10R5/2-10D2	9.5	11.5	2.5	≥40dB@8.7&12.3GHz	10.5×4.0×0.42	
SiMF10R2/1-8D2	9.7	10.7	2.5	≥40dB@8.8&11.5GHz	7.5×3.9×0.84	
SiMS10R5/1R8-10D2	9.7	11.2	2.5	≥40dB@9.0&12.1GHz	10.5×4.4×0.42	
SiMF11/2R5-7D1	9.75	12.25	2	≥40dB@8.68&13.38GHz	7.0×3.2×0.84	
SiMF11/2R2-7D2	9.8	12	1.5	≥40dB@8.2&13.2GHz	7×3.6×0.84	
SiMF11/2R4-8D2	9.8	12.2	2.2	≥40dB@8.7&13.5GHz	7×3×0.84	
SiMF10R96/2R16-7D2	9.8	12.2	2	≥40dB@8.2&13.1GHz	7×3.5×0.84	
SiMF11R5/3-7D2	9.9	13.1	1.3	≥40dB@8.3&14.4GHz	7×3.5×0.84	
SiMF10/R1-4E4	9.98	10.02	4	≥40dB@9.5&10.6GHz	7×3.5×0.84	
SiMF10R6/1R2-8D3	10	11.2	2.5	≥40dB@9&12.05GHz	7×3.2×0.84	
SiMF12/4-9D2	10	14	3.8	≥40dB@8.2&15.8GHz	7×3.2×0.84	
SiMF14/8-10D1	10	18	1	≥40dB@6.5&20.5GHz	7×3×0.84	
SiMS10R35/R7-5D3	10	10.7	2.3	≥40dB@9.1&14GHz	7×3.5×0.42	
SiMS11/2R1-8D2	10	12	1.6	≥40dB@8.8&13.2GHz	8.0×4.0×0.42	
SiMF11R8/3R5-2	10.05	13.55	2	≥40dB@8.5&15GHz	7×3.8×0.84	
SiMF10R5/1-6E2	10.1	11	2	≥40dB@9.4&11.6GHz	7×3.6×0.84	
SiMF10R72/1R16-8D3	10.1	11.5	2.5	≥40dB@9.3&12.2GHz	8×4×0.84	
SiMF14R4/8-10D2	10.4	18.4	1	≥35dB@6.5&23GHz	7×3×0.84	
SiMS11R75/2R5-9D2	10.5	13	1.2	≥40dB@7.5&14.7GHz	8.5×3×0.42	
SiMS11R2/1-4D2	10.7	11.7	1.6	≥40dB@9.2&13.2GHz	5.5×4.0×0.42	
SiMS11R85/2R3-7D1	10.7	13	1.2	≥40dB@8&14.3GHz	7.0×3.1×0.42	
SiMF11R4/1R2-8D3	10.8	12	3	≥30dB@9.8&12.85GHz	7×3.2×0.84	
SiMS11R65/1R7-10D2	10.8	12.5	2.3	≥40dB@9.8&13.6GHz	10.5×4.4×0.42	
SiMF11R5/1-6E2	10.9	12	2	≥40dB@9.6&13.15GHz	7×3.2×0.84	
SiMF12/2R2-7D2	10.9	13.1	1.6	≥40dB@9.4&14.2GHz	7×3.4×0.84	
SiMF12R15/2R5-8D2	10.9	13.4	2	≥40dB@9.7&14.4GHz	7×3.8×0.84	
SiMF11R5/1-8D3	11	12	2.5	≥40dB@10.1&13.0GHz	8×4×0.84	
SiMF12R5/3-8D2	11	14	2	≥40dB@9.6&15.5GHz	7×3.2×0.84	
SiMS11R7/R12-8D3	11.35	11.8	4.5	≥40dB@10.7&12.35GHz	11×4.5×0.42	
SiMS11R6/R4-8D3	11.4	11.8	4	≥40dB@10.7&12.4GHz	11×4.5×0.42	

Part Number	Low Freq. (GHz)	High Freq. (GHz)	Max. IL@ f0 (dB)	Min Attenuation (dB)	Size (mm)	Datasheet
SiMF12R75/2R6-8D2	11.4	14	2.5	≥40dB@10&15.2GHz	7×3.3×0.84	
SiMF12R5/R7-8D3	11.6	13.1	2.5	≥40dB@10.7&13.85GHz	8×3×0.84	
SiMF13/2R8-6D1	11.6	14.4	1.6	≥40dB@9.5&16.1GHz	6×2.3×0.84	
SiMS12R25/1R1-4D2	11.7	12.8	1.6	≥40dB10.1&14.4GHz	5.5×4.0×0.42	
SiMF12R65/2R1-7D2	11.75	13.65	3	≥40dB@10&14.9GHz	7×4×0.84	
SiMF13/2R5-7D1	11.75	14.25	1.9	≥40dB@10.2&15.7GHz	7×2.9×0.84	
SiMF13R5/3R4-8D2	11.8	15.2	1.5	≥40dB@10.2&16.6GHz	7×2.7×0.84	
SiMS15R65/7R3-9D1	11.9	19.5	1.5	≥40dB@8.25&21.9GHz	6.5×3.0×0.42	
SiMF12R5/1-7D2	12	13	3.5	≥40dB@11&14.1GHz	7×3.5×0.84	
SiMF14R1/4R2-7D2	12	16.5	1.5	≥40dB@9.5&18GHz	7×4×0.84	
SiMF15R25/6R5-8D1	12	18.5	1.3	≥40dB@9.2&20GHz	7×2.8×0.84	
SiMS13R1/2R2-8D2	12	14.2	2	≥40dB@10.4&15.6GHz	8×4×0.42	
SiMF13R2/2-3	12.05	14.3	2.5	≥40@10.65&15.6GHz	7×4×0.84	
SiMS12R45/R4-8D4	12.25	12.65	4.7	≥40dB@11.7&13.1GHz	11.5×4.5×0.42	
SiMS13/1-4D2	12.5	13.5	1.8	≥40dB@10.8&15GHz	5.5×3.5×0.42	
SiMF14/2R2-7D2	12.9	15.1	2	≥40dB@11.2&16.3GHz	7×3×0.84	
SiMF14R5/3-7D2	12.9	16	1.4	≥40dB@11&17.4GHz	7×3×0.84	
SiMF13R5/1-4	13	14	2.5	≥40dB@12.0&14.8GHz	7×3.2×0.84	
SiMF13R5/R9-3	13.05	13.95	2.5	≥40dB@11.75&15GHz	7×3.4×0.84	
SiMF13R5/R6-6E4	13.2	13.8	4	≥40dB@12.5&14.5GHz	7×3×0.84	
SiMF13R62/R84-3	13.2	14.04	3	≥40dB@11.9&14.85GHz	7×3.4×0.84	
SiMF14R3/2R2-2	13.2	15.4	1.8	≥40dB@11.3&16.4GHz	7×3.5×0.84	
SiMS14R05/1R1-6D2	13.5	14.6	2.5	≥40dB@12&15.7GHz	7×3.5×0.42	
SiMS14R1/1-4D2	13.6	14.6	2	≥40dB12.1&16.5GHz	5.5×3.5×0.42	
SiMF14R75/2R3-2	13.6	15.9	2	≥40dB@12.3GHz&17.25GHz	6.5×3.5×0.84	
SiMS14R9/2R2-8D2	13.72	16	1.9	≥40dB@12.5&17.3GHz	9×3.5×0.42	
SiMF14R25/R7-8D3	14	15.5	2.7	≥40dB@13&16.5GHz	8×3×0.84	
SiMS15/2R1-8D2	14	16	2	≥40dB@12.8&17GHz	9.0×3.2×0.42	
SiMF16/4-8D2	14	18	1	≥40dB@12&19.7GHz	7×2.7×0.84	
SiMF15R5/3-8D2	14	17	1.8	≥40dB@12.6&18.4GHz	7.0×3.7×0.84	
SiMS14R2/R1-4E4	14.1	14.25	4	≥40dB@13.4&15GHz	7.8×2.9×0.42	
SiMS14R7/R4-6S3	14.5	14.9	3.5	≥40dB@13.9&15.6GHz	7.5×3.5×0.42	

Part Number	Low Freq. (GHz)	High Freq. (GHz)	Max. IL@ f0 (dB)	Min Attenuation (dB)	Size (mm)	Datasheet
SiMF14R95/R7-6D4	14.6	15.6	2.4	≥40dB@13.4&16.4GHz	7×3×0.84	
SiMS15R2/1-6D2	14.7	15.8	2	≥40dB@13.4&16.75GHz	8×3.8×0.42	
SiMS15R35/1R3-6D2	14.7	16	2	≥40dB@13.3&17GHz	7.5×3.6×0.42	
SiMF17R5/5R7-7D2	14.7	20.3	2	≥40dB@11.5&24GHz	7×2.3×0.84	
SiMF15R05/R5-6E3	14.8	15.3	3	≥40dB@14&16.1GHz	7×3×0.84	
SiMF16R4/3R2-8D2	14.8	18.1	2.6	≥40dB@13.3&19.5GHz	7×2.4×0.84	
SiMF16R85/3R2-3	15.05	18.5	2.3	≥40dB@12.8&19.7GHz	7×4×0.84	
SiMF16R6/2R8-7D3	15.2	18	2.5	≥40dB@13.8&20GHz	7×3×0.84	
SiMS15R55/R6-6S3	15.25	15.85	3.5	≥40dB@14.7&16.6GHz	7.5×3.5×0.42	
SiMS15R7/R6-6S3	15.4	16.1	3.2	≥40dB@14.7&17.25GHz	7.5×3.5×0.42	
SiMF16R75/2R5-7D2	15.4	18.2	1.8	≥40dB@13.5&19.5GHz	7.0×3.0×0.84	
SiMS16R6/2-8D3	15.6	17.6	2	≥40dB@14.3&18.8GHz	9.0×3.5×0.42	
SiMF16R95/2R7-2	15.6	18.3	2	≥40dB@14.1&19.8GHz	6.5×3.5×0.84	
SiMF16/R4-4E4	15.8	16.3	4	≥40dB@15&17.1GHz	7×3×0.84	
SiMF17/2R4-7D2	15.8	18.2	2	≥40dB@13.7&19.6GHz	7×2.5×0.84	
SiMS16R65/1R3-6D2	16	17.3	2	≥40dB@14.3&18.4GHz	7.5×3.6×0.42	
SiMF16R5/1-7D3	16.1	16.9	3.5	≥40dB@15&17.9GHz	7×3×0.84	
SiMS17/1R5-12D2	16.25	17.75	3.3	≥40dB@15.3&18.8GHz	13.5×4×0.42	
SiMS18R75/4R5-8D1	16.5	21	1.5	≥40dB@13.5&24GHz	7×2.4×0.42	
SiMF17R2/1R2-6D3	16.6	17.8	2.5	≥40dB@15.5&19.1GHz	7×2.7×0.84	
SiMF17R5/1-7D3	17	18	3.2	≥40dB@15.6&18.9GHz	7×3.0×0.84	
SiMF18/1R4-6D2	17.1	18.8	2	≥40dB@15.5&19.95GHz	6.8×2.4×0.84	
SiMF18R75/2R5-6D2	17.5	20	1.6	≥40dB@15&21.6GHz	7×3.5×0.84	
SiMS19R5/5-8D1	17.5	22	1.5	≥40dB@14&25GHz	7×2.4×0.42	
SiMS20R4/5R2-8D1	17.8	23	2.5	≥40dB@15&27GHz	7×2.4×0.42	
SiMS18R5/1-6S3	18	19	2.5	≥40dB@17.1GHz&21.5GHz	7.5×3.0×0.42	
SiMS20/1R4-6D2	19.3	20.6	2.5	≥40dB@17.65&22.15GHz	9×3.5×0.42	
SiMS20R35/1R9-8D2	19.4	21.3	2.5	≥40dB@18&22.5GHz	8.0×3.5×0.42	
SiMF21/2-7D2	20	22	2	≥40dB@18.2GHz&23.3GHz	7×2.5×0.84	
SiMS20R7/1-6S3	20.2	21.2	2.6	≥40@19.4GHz&23.1GHz	7.5×2.5×0.42	
SiMS21R8/1R2-8D3	21.2	22.4	3.5	≥40dB@19.8&23.3GHz	9.5×3.5×0.42	
SiMF22R6/2-6D2	21.4	23.7	2	≥40dB@19.4GHz&25.2GHz	7×2.5×0.84	

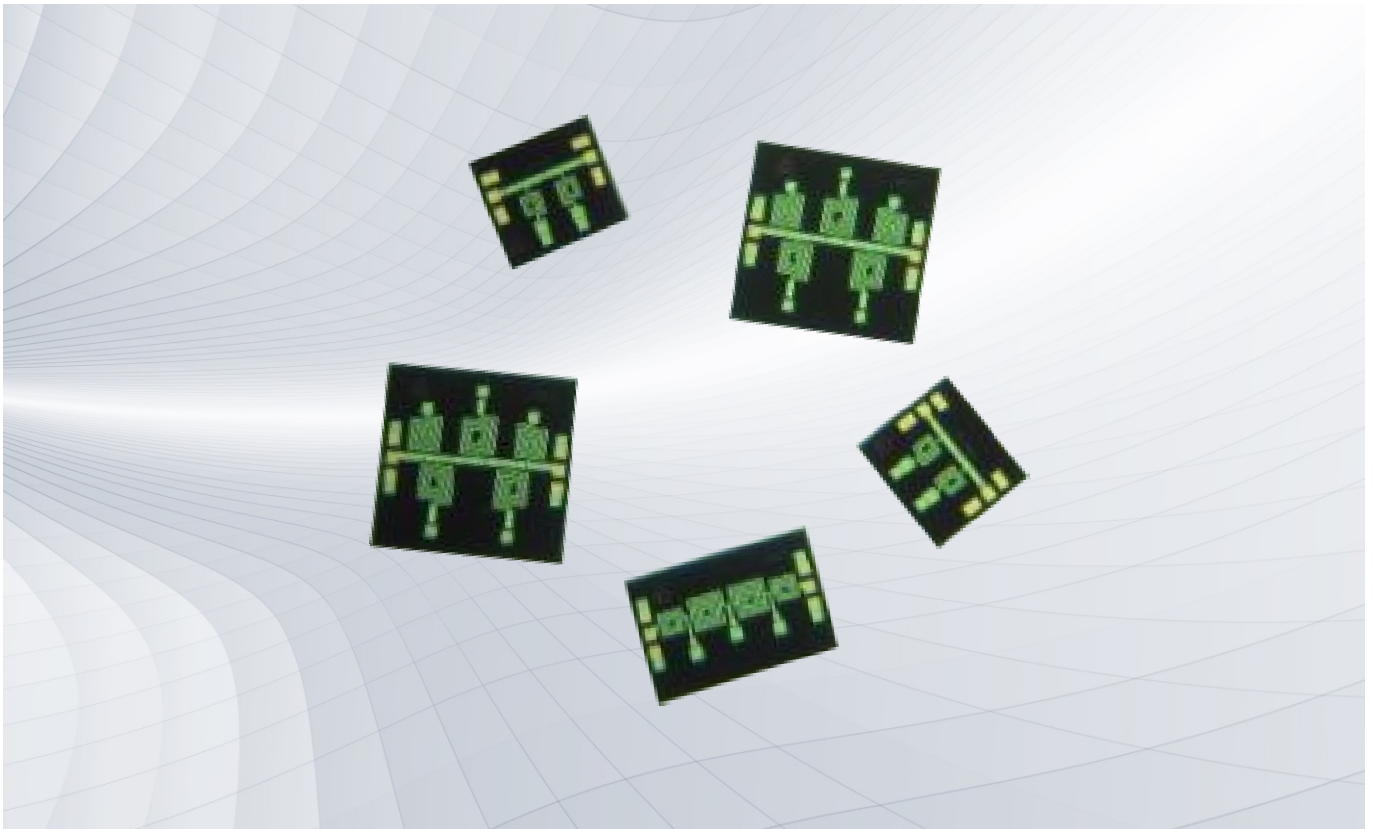
Part Number	Low Freq. (GHz)	High Freq. (GHz)	Max. IL@ f0 (dB)	Min Attenuation (dB)	Size (mm)	Datasheet
SiMF22/1-6E3	21.5	22.5	3	≥40dB@19.7GHz&24.4GHz	4.5×2.7×0.84	
SiMS23/3-6D2	21.6	24.9	2	≥40dB@18.6&28.8GHz	7×2.5×0.42	
SiMS24R3/4R7-8D2	21.7	27	1.5	≥40dB@18.8&29.9GHz	7×2.4×0.42	
SiMS22/R4-6S4	21.8	22.2	4	≥30dB@21.2GHz&23GHz	8×3×0.42	
SiMS22R4/1R2-5P2	21.8	23	2.5	≥40dB@20.2&25GHz	8.5×3.4×0.42	
SiMF22R7/1R5-6D2	21.85	23.6	2	≥40dB@19.75&24.95GHz	6.8×2.1×0.84	
SiMF22R6/1R6-7D2	21.9	23.3	3	≥40dB@20GHz&25.8GHz	7×2.5×0.84	
SiMF23R35/1R5-3	22.8	24	3.5	≥40@20.6GHz&25.4GHz	7×4.0×0.84	
SiMS25/4-6P2	23.1	27.3	1.5	≥40dB@21.3&30.2GHz	9.5×3.5×0.42	
SiMS23R9/1-5P2	23.4	24.4	1.6	≥40dB@21.5GHz&25.6GHz	9.0×3.0×0.42	
SiMF24R6/1R6-6D2	23.5	25.7	2	≥40dB@21.4&26.65GHz	6.8×2.1×0.84	
SiMF24R3/R1-6E5	24.35	24.9	4	≥30dB@23.45GHz&26.55GHz	5×3×0.84	
SiMF25R37/R4-4W3	25.17	25.57	3.5	≥40dB@24.2&26.7GHz	9.2×3.5×0.84	
SiMF28R5/5-5W2	25.6	31	1.1	≥20dB@23.5GHz&37GHz	9.6×3.6×0.84	
SiMF26R05/R4-4W3	25.85	26.25	2.5	≥40dB@24.6&28GHz	9.2×4.0×0.84	
SiMF27R45/3R1-5W1	25.9	29	0.9	≥40@20.85GHz&31.3GHz	6×4×0.84	
SiMS28/2R2-8D3	26.45	29.5	2.6	≥40dB@23.5&32.5GHz	8×2.3×0.42	
SiMS29/4-5W2	27.1	31.2	1.4	≥40dB@23.8GHz , ≥25dB@34.6GHz	10×3.5×0.42	
SiMS35/4-5W1	32.5	37	1.2	≥30dB@30GHz&42.5GHz	7.5×3.5×0.42	
SiMS34R9/3R8-5W2	33	36.8	1.5	≥30dB@29GHz&41.5GHz	7.5×3.5×0.42	
SiMF34R5/2R4-7W2	33.3	35.7	2	≥30dB@32&36.9GHz	6.8×2.5×0.84	
SiMF34R4/2-5W2	33.5	35.9	2	≥30@31.2GHz&39.5GHz	8×3.5×0.84	
SiMF34R25/R7-7W3	33.6	34.9	2.7	≥40@32.4GHz&36GHz	6.4×3.5×0.84	
SiMF34R6/1R6-7W2	33.8	35.4	2	≥40dB@32&36.8GHz	6.3×3.5×0.84	
SiMF34R75/1R7-7W2	33.9	35.6	2.5	≥40dB@32&36.9GHz	6.3×3.5×0.84	
SiMS35/2-7W2	34	36	2	≥40dB@32&38GHz	10.5×3.5×0.42	
SiMS35R2/2-7W3	34.2	36.2	2	≥30dB@33.2&37.4GHz	10.5×3.5×0.42	
SiMF34R65/R3-7W4	34.3	35	3.5	≥40@33.6GHz&35.9GHz	6.9×2.5×0.84	
SiMS35/1R2-5W3	34.4	35.6	2.3	≥35dB@33GHz&37.4GHz	8×3.5×0.42	
SiMS36/3-5W2	34.5	37.5	1.5	≥40dB@31&42.5GHz	7.4×3.5×0.42	

INTRODUCTION

Monolithic microwave integrated circuit, or MMIC, is a type of integrated circuit (IC) device that operates at microwave frequencies (300 MHz to 300 GHz). These devices typically perform functions such as microwave mixing, power amplification, low-noise amplification, and high-frequency switching. Inputs and outputs on MMIC devices are frequently matched to a characteristic impedance of 50 ohms. This makes them easier to use, as cascading of MMICs does not require an external matching network.

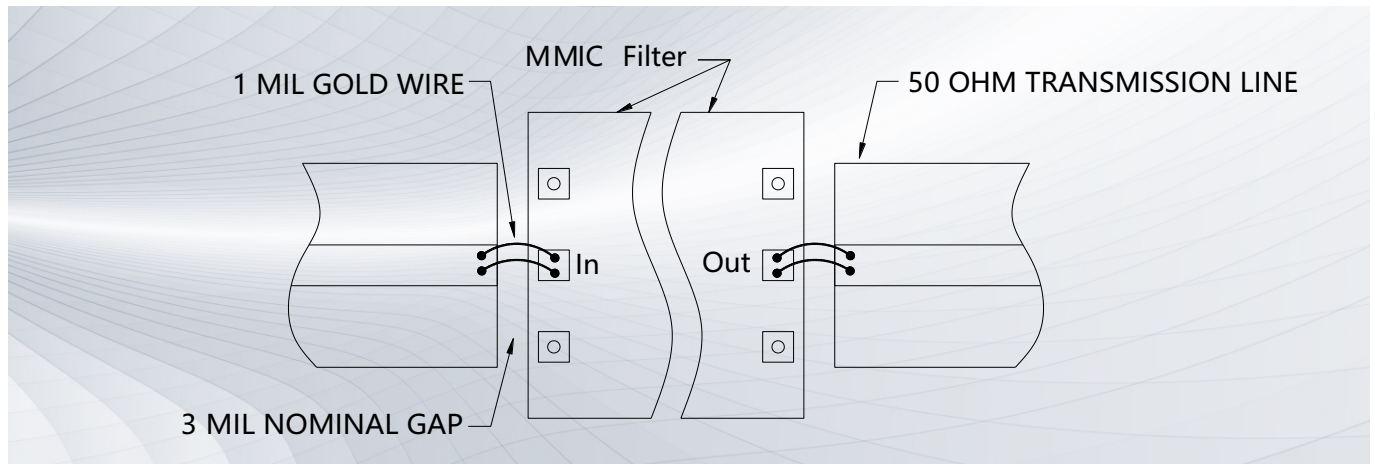
MMIC Filter is a miniature filter fabricated by GaAs precision processing. It is suitable for MCM applications through Au wire bonding. Frequency covers 500MHz to 50GHz with power handling of up to 30dBm.

MMIC filters have small size, good performance, excellent consistency between units and parasitic passband far away from pass bands. They are used in multiple applications including military and defense, commercial wireless, satcom, and radar.



APPLICATION INSTRUCTIONS

1. Recommended Assembly Diagrams



2. The chip is back-metallized and can be die-mounted with AuSn eutectic preforms or with electrically conductive epoxy.
3. The die should be assembled on carriers made of Kovar or Mu-Cu which have similar Coefficient of thermal expansion. (5.8×10^{-6} /) as GaAs.
4. Recommend use of $\Phi 25\mu\text{m}$ Au wire for bonding, which length is around 400 μm .
5. Sinter by AuSn (80/20), which doesn't exceed 300°C within 30 seconds max.
6. Handle the chips in a clean environment. DO NOT attempt to clean the chip using liquid cleaning systems.
7. Handle the chip along the edges with a vacuum collet or with a sharp pair of bent tweezers.
8. The device is sensitive to ESD. ESD protection is required during storage and usage.

Part Number	Type	Low Freq. (GHz)	High Freq. (GHz)	IL (dB)	Rejection (dB)	Dimension (mm)	Datasheet
BWLF-R08	Low Pass	DC	0.08	2.3@0.08GHz	≥20@0.43GHz, ≥40@0.65GHz	2.1×1.8×0.1	
BWLF-R12	Low Pass	DC	0.12	2.3@0.12GHz	≥20@0.46GHz, ≥40@0.71GHz	2.1×1.6×0.1	
PDLF-R12	Low Pass	DC	0.12	3@0.12GHz	≥20@0.24GHz, ≥40@0.4GHz	2.0×1.5×0.15	
BWLF-R16	Low Pass	DC	0.16	2.4@0.16GHz	≥20@0.5GHz, ≥40@0.8GHz	2.1×1.6×0.1	
BWLF-R19	Low Pass	DC	0.19	2.3@0.19GHz	≥20@0.53GHz, ≥40@0.8GHz	2.1×1.4×0.1	
BWLF-R22	Low Pass	DC	0.22	2.3@0.22GHz	≥20@0.6GHz, ≥40@0.9GHz	2.1×1.4×0.1	
PDLF-R3	Low Pass	DC	0.3	2.0@0.3GHz	≥25@0.5GHz, ≥35@0.55GHz	2.0×1.2×0.15	
BWLF-R32	Low Pass	DC	0.32	2.3@0.32GHz	≥20@0.7GHz, ≥40@1.1GHz	2.1×1.4×0.1	
PDLF-R35	Low Pass	DC	0.35	2.8@0.35GHz	≥25@0.5GHz, ≥40@0.55GHz	3×2×0.15	
PDLF-R37	Low Pass	DC	0.37	3.0@0.37GHz	≥25@0.5GHz, ≥40@0.55GHz	3×1.8×0.15	
PDLF-R4G	Low Pass	DC	0.4	1.6@0.4GHz	≥30@0.76GHz	2.0×1.2×0.15	
BWLF-R4	Low Pass	DC	0.4	1.8@0.4 GHz	≥20@0.9GHz, ≥40@1.4GHz	2.1×1.05×0.1	
BWLF-R5	Low Pass	DC	0.5	1.9@0.5GHz	≥20@1.3GHz, ≥40@1.65GHz	2.1×1.05×0.1	
BWLF-R5G	Low Pass	DC	0.5	1.7@0.5GHz	≥20@1.2GHz, ≥40@1.65-6GHz	1.6×1×0.1	
PDLF-R5G	Low Pass	DC	0.51	1.6@0.51GHz	≥20@0.78GHz	2.0×1.2×0.15	
BWLF-R63	Low Pass	DC	0.63	1.5@0.63GHz	≥20@1.4GHz, ≥40@2.1GHz	2.1×1.05×0.1	
BWLF-R8	Low Pass	DC	0.8	1.5@0.8GHz	≥20@1.7GHz, ≥40@2.6GHz	2.1×1.05×0.1	
BWLF-1	Low Pass	DC	1	1.8@1.0GHz	≥20@2.15GHz, ≥40@2.8GHz	2.1×1.05×0.1	
BWLF-1G	Low Pass	DC	1	1.6@1.0GHz	≥20@1.72GHz, ≥40@1.95GHz	1.6×0.8×0.1	
PDLF-1R3G	Low Pass	DC	1.3	2.2@1.3GHz	≥25@1.55GHz, ≥40@1.9GHz	2.4×1.2×0.15	
BWLF-1R5	Low Pass	DC	1.5	1.8@1.5GHz	≥20@2.85GHz, ≥40@3.7GHz	2.1×1.05×0.1	
BWLF-1R5G	Low Pass	DC	1.5	1.4@1.5GHz	≥20@2.6GHz, ≥40@2.95GHz	1.6×0.8×0.1	
BWLF-2	Low Pass	DC	2	1.8@2.0GHz	≥20@3.5GHz, ≥40@4.6GHz	2.1×1.05×0.1	
BWLF-2G	Low Pass	DC	2	1.5@2.0GHz	≥20@3.25GHz, ≥40@3.75GHz	1.6×0.8×0.1	
PDLF-2G	Low Pass	DC	2	1.8@2.0GHz	≥20@2.4GHz, ≥35@2.55GHz	2.4×1.5×0.15	
BWLF-2R5	Low Pass	DC	2.5	1.8@2.5GHz	≥20@4.4GHz, ≥40@5.6GHz	2.1×1.05×0.1	
BWLF-2R5G	Low Pass	DC	2.5	1.6@2.5GHz	≥20@3.9GHz, ≥40@4.2GHz	1.6×0.8×0.1	
PDLF-2R8G	Low Pass	DC	2.8	1.8@2.8GHz	≥20@3.25GHz, ≥40@3.5GHz	2.4×1.2×0.15	
BWLF-3	Low Pass	DC	3	1.7@3.0GHz	≥20@5.55GHz, ≥40@7GHz	1.6×0.8×0.1	
BWLF-3G	Low Pass	DC	3	1.5@3.0GHz	≥20@4.75GHz, ≥40@5.15GHz	1.6×0.8×0.1	
BWLF-3R5	Low Pass	DC	3.5	1.7@3.5GHz	≥20@5.95GHz, ≥40@7.5GHz	1.6×0.8×0.1	
BWLF-3R5G	Low Pass	DC	3.5	1.5@3.5GHz	≥20@5.35GHz, ≥40@5.85GHz	1.6×0.8×0.1	

Part Number	Type	Low Freq. (GHz)	High Freq. (GHz)	IL (dB)	Rejection (dB)	Dimension (mm)	Datasheet
BWLF-4	Low Pass	DC	4	1.7@4.0GHz	≥20@6.6GHz, ≥40@8.5GHz	1.6×0.8×0.1	
BWLF-4G	Low Pass	DC	4	1.7@4.0GHz	≥20@5.75GHz, ≥40@6.25GHz	1.6×0.8×0.1	
BWLF-4R5	Low Pass	DC	4.5	1.7@4.5GHz	≥20@7.5GHz, ≥40@9.7GHz	1.6×0.8×0.1	
BWLF-4R8	Low Pass	DC	4.8	2.5@4.8GHz	≥20@5.8GHz, ≥35@6.5-20GHz	1.6×0.8×0.1	
BWLF-5	Low Pass	DC	5	1.7@5.0GHz	≥20@8.15GHz, ≥40@10.5GHz	1.6×0.8×0.1	
BWLF-5G	Low Pass	DC	5	1.6@5.0GHz	≥20@7.25GHz, ≥40@7.95GHz	1.6×0.8×0.1	
BWLF-5R5	Low Pass	DC	5.5	1.7@5.5GHz	≥20@9GHz, ≥40@11.65GHz	1.6×0.8×0.1	
BWLF-6	Low Pass	DC	6	1.8@6.0GHz	≥20@9.5GHz, ≥40@12.2GHz	1.6×0.8×0.1	
BWLF-6G	Low Pass	DC	6	1.6@6.0GHz	≥20@8.45GHz, ≥40@9.35GHz	1.6×0.8×0.1	
BWLF-7	Low Pass	DC	7	1.7@7.0GHz	≥20@10.75GHz, ≥40@13.4GHz	1.6×0.8×0.1	
BWLF-7G	Low Pass	DC	7	1.4@7.0GHz	≥20@10.15GHz, ≥40@11.15GHz	1.6×0.8×0.1	
BWLF-8	Low Pass	DC	8	1.6@8.0GHz	≥20@12.3GHz, ≥40@15.55GHz	1.6×0.8×0.1	
BWLF-8G	Low Pass	DC	8	1.4@8.0GHz	≥20@11.8GHz, ≥40@13.5GHz	1.6×0.8×0.1	
BWLF-9	Low Pass	DC	9	1.7@9.0GHz	≥20@13.6GHz, ≥40@17.1GHz	1.6×0.8×0.1	
BWLF-9G	Low Pass	DC	9	1.7@9.0GHz	≥20@12.75GHz, ≥40@14.3GHz	1.6×0.8×0.1	
PDLF-9R7G	Low Pass	DC	9.7	2.5@9.7GHz	≥20@10.4GHz, ≥35@10.6GHz	2.0×1.2×0.15	
BWLF-10	Low Pass	DC	10	1.6@10GHz	≥20@14.95GHz, ≥40@18.9GHz	1.6×0.8×0.1	
BWLF-10G	Low Pass	DC	10	1.6@10GHz	≥20@14GHz, ≥40@15.85GHz	1.6×0.8×0.1	
BWLF-11	Low Pass	DC	11	1.6@11GHz	≥20@16.5GHz, ≥40@20.8GHz	1.6×0.8×0.1	
BWLF-11G	Low Pass	DC	11	1.6@11GHz	≥20@15.3GHz, ≥40@17.4GHz	1.6×0.8×0.1	
BWLF-12	Low Pass	DC	12	1.7@12GHz	≥20@17.9GHz, ≥40@22.7GHz	1.6×0.8×0.1	
BWLF-12G	Low Pass	DC	12	1.6@12GHz	≥20@16.6GHz, ≥40@18.8GHz	1.6×0.8×0.1	
BWLF-13	Low Pass	DC	13	1.7@13GHz	≥20@19.4GHz, ≥40@24.5GHz	1.6×0.8×0.1	
BWLF-13G	Low Pass	DC	13	1.6@13GHz	≥20@17.95GHz, ≥40@20.55GHz	1.6×0.8×0.1	
PDLF-13R5	Low Pass	DC	13.5	2@13.5GHz	≥25@17.8GHz, ≥40@19.5GHz	1.6×0.8×0.15	
BWLF-14	Low Pass	DC	14	1.6@14GHz	≥20@21.6GHz, ≥40@27.7GHz	1.6×0.8×0.1	
BWLF-14G	Low Pass	DC	14	1.6@14GHz	≥20@19.4GHz, ≥40@22.1GHz	1.6×0.8×0.1	
BWLF-15	Low Pass	DC	15	1.7@15GHz	≥20@22.4GHz, ≥40@28.9GHz	1.6×0.8×0.1	
BWLF-15G	Low Pass	DC	15	1.7@15GHz	≥20@20.45GHz, ≥40@23.35GHz	1.6×0.8×0.1	
BWLF-16	Low Pass	DC	16	1.8@16GHz	≥20@23.6GHz, ≥40@30.6GHz	1.6×0.8×0.1	
BWLF-16G	Low Pass	DC	16	1.7@16GHz	≥20@21.9GHz, ≥40@25.2GHz	1.6×0.8×0.1	
BWLF-17	Low Pass	DC	17	1.8@17GHz	≥20@25GHz, ≥40@32.4GHz	1.6×0.8×0.1	

Part Number	Type	Low Freq. (GHz)	High Freq. (GHz)	IL (dB)	Rejection (dB)	Dimension (mm)	Datasheet
BWLF-17G	Low Pass	DC	17	1.7@17GHz	≥20@23.2GHz, ≥40@26.6GHz	1.6×0.8×0.1	
BWLF-18	Low Pass	DC	18	1.8@18GHz	≥20@26.5GHz, ≥40@33.4GHz	1.6×0.8×0.1	
BWLF-18G	Low Pass	DC	18	1.7@18GHz	≥20@25.2GHz, ≥40@29.2GHz	1.6×0.8×0.1	
BWLF-18GA	Low Pass	DC	18	2.5@18GHz	≥20@21.5GHz, ≥40@23-35GHz	1.6×1.0×0.1	
BWLF-19	Low Pass	DC	19	1.8@19GHz	≥20@27.9GHz, ≥40@35.5GHz	1.6×0.8×0.1	
BWLF-19G	Low Pass	DC	19	1.7@19GHz	≥20@26.3GHz, ≥40@31.2GHz	1.6×0.8×0.1	
BWLF-20	Low Pass	DC	20	2.0@20GHz	≥20@29.5GHz, ≥40@37.8GHz	1.6×0.8×0.1	
BWLF-20G	Low Pass	DC	20	1.8@20GHz	≥20@27.1GHz, ≥40@31.6GHz	1.6×0.8×0.1	
BWLF-22	Low Pass	DC	22	2.0@22GHz	≥20@33.5GHz, ≥40@38GHz	1.6×0.8×0.1	
BWLF-23G	Low Pass	DC	23	2.2@23GHz	≥20@28GHz, ≥40@29.5GHz	1.6×0.8×0.1	
PDHF-R5G	High Pass	0.5	3	2.0@0.5GHz	≥20@0.2GHz, ≥40@0.05GHz	1.6×0.8×0.15	
BWHF-1G	High Pass	1	8	2.1@1.0GHz	≥20@0.55GHz, ≥40@0.43GHz	1.6×0.8×0.1	
BWHF-2G	High Pass	2	18	2.5@2.0GHz	≥20@1.4GHz, ≥40@1.25GHz	1.6×0.8×0.1	
BWHF-3G	High Pass	3	21	1.7@3.0GHz	≥20@1.82GHz, ≥40@1.62GHz	1.6×0.8×0.1	
BWHF-4G	High Pass	4	26	1.7@4.0GHz	≥20@2.6GHz, ≥40@2.35GHz	1.6×0.8×0.1	
BWHF-5G	High Pass	5	28	1.7@5.0GHz	≥20@3.3GHz, ≥40@3GHz	1.6×0.8×0.1	
BWHF-6G	High Pass	6	28	1.7@6.0GHz	≥20@3.9GHz, ≥40@3.55GHz	1.6×0.8×0.1	
BWHF-7G	High Pass	7	29	1.6@7.0GHz	≥20@4.55GHz, ≥40@4.15GHz	1.6×0.8×0.1	
BWHF-8G	High Pass	8	30	1.7@8.0GHz	≥20@5.45GHz, ≥40@4.95GHz	1.6×0.8×0.1	
BWHF-9G	High Pass	9	31	1.7@9.0GHz	≥20@6.15GHz, ≥40@5.6GHz	1.6×0.8×0.1	
PDHF-10G	High Pass	10	18	3.5@10GHz	≥10@9.5GHz	1.6×0.8×0.15	
BWHF-10G	High Pass	10	32	1.9@10.0GHz	≥20@7.4GHz, ≥40@6.8GHz	1.6×0.8×0.1	
BWHF-12G	High Pass	12	35	1.7@12.0GHz	≥20@8.3GHz, ≥40@7.6GHz	1.6×0.8×0.1	
PDHF-13R75	High Pass	13.8	25	2.0@13.8GHz	≥25@9.5GHz, ≥35@6.0GHz	1.6×0.8×0.15	
PDHF-14	High Pass	14	18	1.5@14.0GHz	≥25@9.6GHz	1.6×0.8×0.15	
BWHF-14G	High Pass	14	36	1.7@14.0GHz	≥20@10GHz, ≥40@9.2GHz	1.6×0.8×0.1	
BWHF-16G	High Pass	16	38	1.8@16.0GHz	≥20@11.4GHz, ≥40@10.4GHz	1.6×0.8×0.1	
BWHF-18G	High Pass	18	39	2.2@18.0GHz	≥20@13.7GHz, ≥40@12.9GHz	1.6×0.8×0.1	
BWHF-20G	High Pass	20	40	1.9@20.0GHz	≥20@14.7GHz, ≥40@13.7GHz	1.6×0.8×0.1	
BWHF-23G	High Pass	23	30	2.3@23.0GHz	≥40@100M ~ 16GHz	1.6×0.8×0.1	
PDHF-9R7G	High Pass	23	30	2.3@23GHz	≥40@100M ~ 16GHz	1.6×1.2×0.15	
BWHF-24G	High Pass	24	34	2.3@24.0GHz	≥40dB@100M ~ 16.5GHz	1.6×0.8×0.1	

Part Number	Type	Low Freq. (GHz)	High Freq. (GHz)	IL (dB)	Rejection (dB)	Dimension (mm)	Datasheet
BWHF-28G	High Pass	28	40	2.3@28.0GHz	≥40dB@100M ~ 19.5GHz	1.6×0.8×0.1	
BWHF-33G	High Pass	33	41	2.3@33.0GHz	≥40dB@100M ~ 21GHz	1.6×0.8×0.1	
BWHF-36G	High Pass	36	41	2.3@36GHz	≥40dB@100M ~ 25GHz	1.6×0.8×0.1	
PDBF-R105/R145-4C5	Band Pass	0.11	0.135	5.5@0.123GHz	≥40@40MHz & 200 MHz	3.0×2.1×0.15	
PDBF-R2/R25-4C5	Band Pass	0.2	0.25	7.0@0.225GHz	≥40@120 MHz & 340 MHz	3.0×2.1×0.1	
PDBF-R21/R39-4C3	Band Pass	0.21	0.38	3.0@0.3GHz	≥35@80MHz & 600 MHz	2.5×1.2×0.15	
PDBF-R24/R36-3C2	Band Pass	0.25	0.35	3.0@0.3GHz	≥35@80MHz & 600 MHz	3.0×2.0×0.15	
PDBF-R365/R385-4C5	Band Pass	0.365	0.385	5.5@0.375GHz	≥35@220 MHz & 500MHz	3.0×1.4×0.15	
PDBF-R38/R58-4C2	Band Pass	0.4	0.55	3.5@0.48GHz	≥35@200MHz & 800MHz	2.5×1.5×0.15	
PDBF-R425/R475	Band Pass	0.44	0.47	7.0@0.46GHz	≥30@0.34 GHz, ≥30@0.56 GHz	3.5×1.7×0.15	
PDBF-R42/R72	Band Pass	0.45	0.7	2.5@0.575GHz	≥30@0.3GHz, ≥30@0.9GHz	4.2×2.8×0.15	
PDBF-R45/1R8	Band Pass	0.45	1.8	2.0@1.125GHz	≥30@0.2GHz, ≥30@2.4GHz	4.6×1.75×0.15	
PDBF-R45/R75-6C3	Band Pass	0.5	0.7	2.5@0.6GHz	≥25@0.36GHz, ≥30@0.9GHz	4.2×2.8×0.15	
BWBF-R525/R725	Band Pass	0.55	0.7	4.5@0.63GHz	≥40@0.3&1GHz	2.8×1.5×0.1	
PDBF-R62/R82-6C4	Band Pass	0.65	0.8	4.5@0.725GHz	≥35@1GHz, ≥35@0.5GHz	3.5×2.2×0.15	
PDBF-R8/1R2-6D3	Band Pass	0.8	1.2	3.5@1.0GHz	≥40@0.3& 1.8GHz	3.0×0.9×0.15	
PDBF-R7/2-6C2	Band Pass	0.85	1.7	1.5@1.23GHz	≥30@0.55& 2.3GHz	4.5×1.5×0.15	
PDBF-R95/1R45-7C4	Band Pass	0.95	1.45	5.0@1.2GHz	≥30@0.6& 2.0 GHz	2.8×1.2×0.15	
PDBF-R95/1R45-7C2	Band Pass	0.95	1.45	3.0@1.2GHz	≥30@0.6& 2.0 GHz	2.5×1.2×0.15	
PDBF-1/1R4-4C3	Band Pass	1	1.4	3.6@1.2GHz	≥40@0.6& 2.0 GHz	2.5×1.1×0.15	
PDBF-1R015/1R235-8C5	Band Pass	1.02	1.23	4.5@1.22GHz	≥30@0.7GHz, ≥35@1.5GHz	3.2×1.6×0.15	
PDBF-1R05/1R45-8C3	Band Pass	1.05	1.45	2.5@1.25GHz	≥30@0.75GHz, ≥35@1.7GHz	4.8×1.2×0.15	
PDBF-1R1/1R9-7C3	Band Pass	1.1	1.85	2.5@1.5GHz	≥40@0.5&2.5GHz	2.8×1.2×0.15	
PDBF-1R2/1R6-6D3	Band Pass	1.2	1.6	3.0@1.4GHz	≥40@0.6&2.1GHz	3.0×1.0×0.15	
PDBF-1R275/1R475-6C4	Band Pass	1.27	1.48	4.5@1.38GHz	≥40@0.95&1.95 GHz	3.0×2.0×0.15	
PDBF-1R3/2R3-5C2	Band Pass	1.3	2.3	2.5@1.8GHz	≥40@0.75&3.2GHz	2.8×1.2×0.15	
PDBF1R8/1-16B2	Band Pass	1.3	2.3	3.0@1.8GHz	≥25@1.1&2.5GHz	4.8×2.2×0.15	
BWBF-1R3/2R3	Band Pass	1.35	2.25	2.7@1.8GHz	≥35@0.85GHz, ≥20@2.75GHz	1.2×2.2×0.1	
PDBF-1R4/2R2-8C3	Band Pass	1.45	2.15	3.5@1.8GHz	≥25@1.2&2.4GHz	4.8×2.2×0.15	
PDBF-1R4/2R42-16B2	Band Pass	1.45	2.4	3.0@1.83GHz	≥25@1.1&2.7GHz	4.8×2.2×0.15	
PDBF-1R6/2-4C3	Band Pass	1.6	2	5.0@1.8GHz	≥40@0.7 & 2.0 GHz	1.5×1.5×0.15	
PDBF-1R6/2-6D3	Band Pass	1.6	2	3.5@1.8GHz	≥25@1.1&2.4GHz	3.0×1.0×0.15	

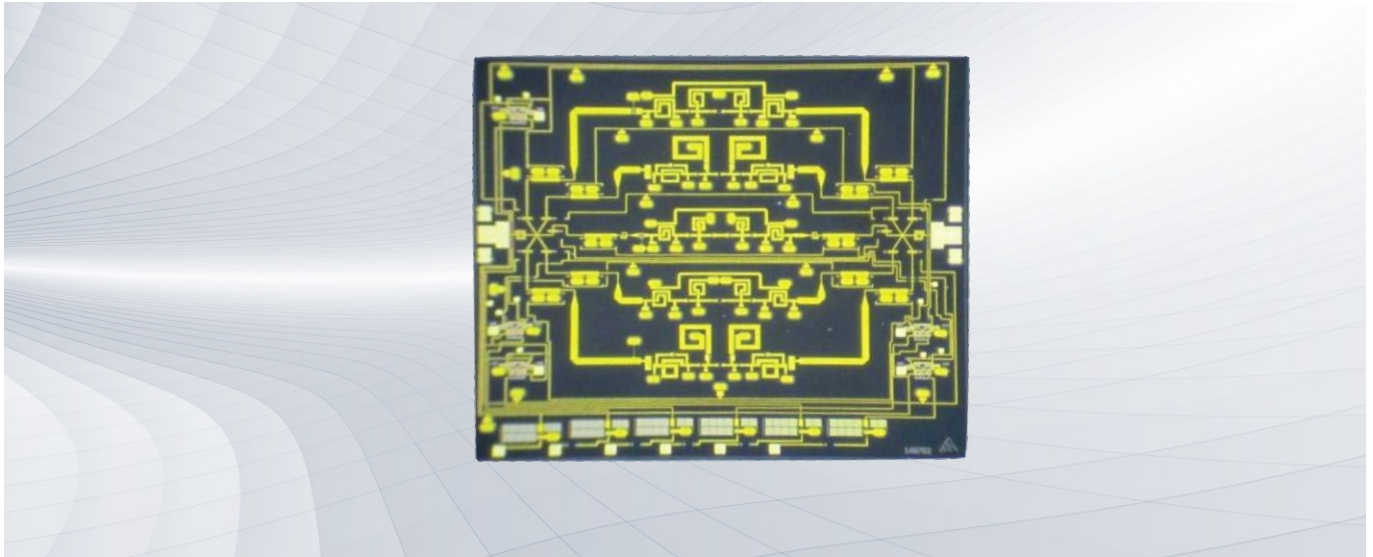
Part Number	Type	Low Freq. (GHz)	High Freq. (GHz)	IL (dB)	Rejection (dB)	Dimension (mm)	Datasheet
PDBF-1R6/2R9-16C3	Band Pass	1.7	2.7	3.5@2.2GHz	≥25@1.3 & 3.2 GHz	4.4×2×0.15	
PDBF-1R65/1R95-5C6	Band Pass	1.7	1.9	5.0@1.8GHz	≥30@1.35GHz, ≥30@2.4GHz	2.4×1.4×0.15	
PDBF2R4/R54-16B2	Band Pass	2.2	2.5	2.5@2.35GHz	≥25@1.9&3.0GHz	4.8 × 2.2 × 0.15	
BWBF-2R92/3R02-5D6	Band Pass	2.92	3.02	5.5@2.97GHz	≥35@0.85GHz, ≥20@2.75GHz	2.3×4×0.1	
BWBF-3R1/3R5	Band Pass	3.1	3.5	2.7@3.3GHz	≥35@2.5&4.2GHz	1.6×2.3×0.1	
PDBF-3/4-5D4	Band Pass	3.2	3.9	2.0@3.5GHz	≥30@2.6 GHz, ≥35@4.7 GHz	2×3×0.15	
BWBF-4/7R5-7C3	Band Pass	4.5	7	2.5@5.75GHz	≥30@2.8GHz&9GHz	1.6×0.8×0.1	
PDBF-4R5/5R1-5D4	Band Pass	4.5	5.1	2.5@4.8GHz	≥40@3.8&5.8GHz	2.7×1.6×0.15	
BWBF-5/13-7C2	Band Pass	5	13	3.0@9GHz	≥40@3.3&16.5GHz	1.5×0.9×0.1	
BWBF-5/5R6	Band Pass	5.05	5.45	6.5@5.25GHz	≥40@4.5&6.2GHz	2.1×1.5×0.1	
PDBF-5R25/5R75-5D3	Band Pass	5.25	5.75	3.0@5.5GHz	≥30@4.8&6.3 GHz	2.3×2.0×0.15	
PDBF-5R25/5R85-5D2	Band Pass	5.25	5.8	2.5@5.53GHz	≥35@4.7&6.35GHz	2.9×2.9×0.15	
PDBF-5R25/5R85-5D3	Band Pass	5.25	5.85	3@5.55GHz	≥32@4.8GHz, ≥32@6.33GHz	2.4×4×0.15	
BWBF-7/9	Band Pass	7	9	2.7@8GHz	≥40@6GHz, ≥30@10.05GHz	1.9×1.75×0.1	
BWBF-8/12-5E2	Band Pass	8	11.7	2.5@9.85GHz	≥40@5.6&16.5GHz	1.6×1.1×0.1	
BWBF-8/12	Band Pass	8	12	1.7@10GHz	≥25@3.9GHz, ≥40@14.8GHz	1.05×1.35×0.1	
BWBF-8R2/10	Band Pass	8.2	10	2.8@9.1GHz	≥40@6.95GHz, ≥30@11.4GHz	1.9×1.5×0.1	
BWBF-9R2/11	Band Pass	9.2	11	3.3@10.1GHz	≥40@7.95&12.7GHz	1.9×1.5×0.1	
BWBF-10/10R5	Band Pass	10	10.5	2.5@10.25GHz	≥40@9.15GHz, ≥30@12.6GHz	3.0×3.0×0.1	
PDBF-10/11-5D3	Band Pass	10.1	11.2	2.2@10.65GHz	≥30@9&12.5GHz	2.25×1×0.15	
BWBF-10R2/12	Band Pass	10.2	12	3.5@11.1GHz	≥40@8.85GHz, ≥30@13.7GHz	1.9×1.25×0.1	
BWBF-11R2/13	Band Pass	11.2	13	3.5@12.1GHz	≥40@9.8GHz, ≥30@14.65GHz	1.9×1.25×0.1	
PDBF-12/13-5D3	Band Pass	12	13	2.5@12.5GHz	≥30@10.8&14.3GHz	2.25×1×0.15	
PDBF-12/16	Band Pass	12	15.8	2.5@13.9GHz	≥40@10GHz, ≥30@18GHz	1.8×1.0×0.15	
BWBF-12/16-7C3	Band Pass	12	16	2.5@14GHz	≥40@8.5GHz&21GHz	1.6×0.8×0.1	
PDBF-13/15-5D3	Band Pass	13	15	3.0@14GHz	≥30@11.5&16.5GHz	3.2×1.6×0.15	
BWBF-13R4/16R4-7C3	Band Pass	13	16.3	3.0@14.65GHz	≥35@10& 19.8GHz	1.6×0.8×0.1	
BWBF-14R31/15R31	Band Pass	14.31	15.31	4.5@14.81GHz	≥40@12.7 & 16.9GHz	1.8×1.5×0.1	
PDBF-15/16-5D3	Band Pass	15	16	2.6@15.5GHz	≥30@13.5&17.5GHz	2.25×1×0.15	
PDBF-15R7/17R7-5D2	Band Pass	15.7	17.7	3.2@16.7GHz	≥35@14.4GHz, ≥23@18.9GHz	3.2×1.6×0.15	
PDBF-16/20	Band Pass	16	20	2.0@18GHz	≥25@13GHz, ≥40@23GHz	2.5×2×0.15	
BWBF-16R5/17R5	Band Pass	16.5	17.5	6.5@17GHz	≥40@15.2 &18.6GHz	2.1×1.5×0.1	

Part Number	Type	Low Freq. (GHz)	High Freq. (GHz)	IL (dB)	Rejection (dB)	Dimension (mm)	Datasheet
PDBF-16R5/17R5-5D3	Band Pass	16.5	17.5	4.0@17GHz	≥30@15&19.1GHz	2.4×1.2×0.15	
BWBF-17R4/19R4	Band Pass	17.4	19.4	3.0@18.4GHz	≥40@14&21GHz	2.71×1.78×0.1	
BWBF-21R5/26R7	Band Pass	21.5	26.7	2.5@24.1GHz	≥20@19.1&29.4GHz, ≥40@18.3&31.2GHz	2.0×1.2×0.1	
BWBF-24/32	Band Pass	24	31	2.0@27.5GHz	≥40@10&37GHz	1.6×1.4×0.1	
BWBF-26/28R5	Band Pass	26	28.5	2.8@27.25GHz	≥40@23.5GHz, ≥30@30.8GHz	1.6×1.3×0.1	
PDBF33/35-6B2	Band Pass	31	35	2.5@33GHz	≥35@23&40GHz	2.4×1.6×0.15	

INTRODUCTION

Filter Bank is an array of bandpass filters that split the input signal into a set of analysis signals, each one carrying a single frequency sub-band of the original signal. In other words, Filter Bank is a set of bandpass filters combination with each filter centered at a different frequency.

MMIC Filter bank is a miniature filter bank fabricated by GaAs precision processing. It is suitable for MCM applications through Au wire bonding. Frequency covers 500MHz to 40GHz or higher. And it has small size, good performance, excellent consistency between units and parasitic passband far away from pass bands. They are used in multiple applications including military and defense, commercial wireless, satcom, and radar.



Part Number	Low Freq. (GHz)	High Freq. (GHz)	Pass Band Freq.(GHz)	Pass Band IL(dB)	RL (dB)	Rejection (dBc) min.	Dimension (mm)	Swich Type	Datasheet
BWSBF-R1/20-5A	0.1	20	0.1-0.5	≤8.5	12	35@1GHz	4.4×4.2×0.1	FET	
			0.1-0.9	≤12.0	12	35@1.9GHz			
			0.1-1.9	≤12.0	12	30@2.8GHz			
			0.1-4.5	≤11.0	12	30@5.8GHz			
			THRU	10±1@4.5GHz	12	-			
			(0.1-20)	5±1@20GHz	-	-			
BWSBF-R1/20-5B	0.1	20	DC-0.5	≤8.0	12	15@0.9GHz,30@1.5GHz	4.4×4.2×0.1	FET	
			DC-1.0	≤8.0	12	15@1.5GHz,30@2.0GHz			
			DC-2.3	≤8.0	12	15@3.0GHz,30@4.6GHz			
			DC-6.0	≤8.0	12	10@6.9GHz,30@12.0GHz			
			THRU	8±1@6GHz	12	-			
			(DC-20)	5±1@20GHz	-	-			
PDSBF-R2/3-6	0.2	3	0.2-0.3	≤8.0	12	35@0.07&0.45GHz	5.0×6.0×0.15	FET	
			0.3-0.45	≤8.0	12	35@0.12&0.65GHz			
			0.45-0.7	≤9.0	12	35@0.15&1GHz			
			0.7-1.1	≤9.0	12	35@0.3&1.5GHz			
			1.1-1.8	≤9.0	12	35@0.4&2.3GHz			
			1.8-3	≤8.0	12	35@0.65&3.7GHz			
BWSBF3-R38/R86-4C6	0.38	0.86	0.38-0.52	≤6.5	10	30@0.25&0.76GHz	4.5×4.5×0.1	FET	
			0.5-0.67	≤6.5	10	30@0.33&1GHz			
			0.62-0.86	≤6.5	10	30@0.42&1.24GHz			
PDSBF5-R4/2R7-5C4	0.4	2.7	0.4-0.7	≤7.5	10	10@0.3GHz,20@0.9GHz	5.0×4.5×0.15	FET	
			0.5-0.9	≤7.5	10	15@0.3GHz,25@1.2GHz			
			0.7-1.2	≤7.5	10	15@0.5GHz,15@1.5GHz			
			1-1.8	≤7.5	10	10@0.8GHz,20@2.1GHz			
			1.6-2.7	≤7.5	10	10@1.3GHz,20@3.2GHz			
BWSBF-R65/3-5	0.65	3	0.65-0.95	≤7.7	12	30@0.48&1.3GHz	5.3×5.8×0.1	FET	
			0.89-1.4	≤9.0	12	30@0.7&1.78GHz			
			1.34-2	≤7.7	12	30@1&2.68GHz			
			1.94-3	≤7.3	12	30@1.5&3.6GHz			

Part Number	Low Freq. (GHz)	High Freq. (GHz)	Pass Band Freq.(GHz)	Pass Band IL(dB)	RL (dB)	Rejection (dBc) min.	Dimension (mm)	Switch Type	Datasheet
PDSBF7-0R8/18R0-5D6	0.8	18	0.8-1.4	≤8.0dB	10	45@DC-0.4GHz,50@1.9GHz	5.0×4.7×0.15	FET	
			1.25-2.15	≤8.5dB	10	45@DC-0.8GHz,50@2.8GHz			
			1.9-3.1	≤8.0dB	10	40@DC-1.0GHz,45@3.9GHz			
			2.7-4.6	≤8.5dB	10	40@DC-1.6GHz,50@5.6GHz			
			4.2-6.4	≤9.5dB	10	40@DC-2.9GHz,40@7.7GHz			
			6-10	≤9.5dB	10	50@DC-4.5GHz,48@12.1GHz			
			9.9-18	≤10.5dB	10	40@DC-6.7GHz,35@20.5GHz			
BWSBF4-R8/3-7C5	0.8	3	0.8-1.2	≤6.5	10	30@0.55&1.6GHz	4.5×4.5×0.1	FET	
			1.1-1.6	≤6.5	10	30@0.75&2.2GHz			
			1.5-2.2	≤6.5	10	30@1.05&3GHz			
			2-3	≤6.5	10	30@1.45&4GHz			
BWSBF-R8/2R2-3	0.8	2.2	0.8-1.2	≤6.0	12	20@0.62&1.55GHz	4.2×3.5×0.1	FET	
			1.1-1.6	≤5.5	12	20@0.85&2.05GHz			
			1.5-2.2	≤5.5	12	20@1.15&2.65GHz			
BWSBF-R8/18-7A	0.8	18	0.8-3	≤8	12	27@4GHz	4.6×4.2×0.15	FET	
			2-3.5	≤8.5	12	20@1.65&4.18GHz,30@1.5&4.9GHz			
			2.5-4.3	≤8.5	12	20@2.05&5.14GHz,30@1.9&5.8GHz			
			3.3-5.5	≤8.5	12	20@2.75&6.67GHz,30@2.6&6.9GHz			
			4.5-7.5	≤9	12	20@3.8&9.2GHz,30@3.6GHz			
			6.5-11	≤8.5	12	20@5.5&12.9GHz,30@5.3&13GHz			
			10-18	≤9	12	20@8.3&21.3GHz,30@7.5&21.5GHz			
BWSBF5-R8/18-7C8	0.8	18	0.8-5	≤7.0	10	40@6.5-10GHz&0.05-0.30GHz	4.5×4.5×0.1	FET	
			5-9	≤10.5	10	40@11-15GHz&2-3.5GHz			
			8-12	≤10.5	10	40@14-18GHz&2-6GHz			
			11-15	≤10.5	10	40@5-9GHz&19-22GHz			
			14-18	≤10.5	10	40@8-11.8GHz&22-25GHz			
BWSBF-1R5/8R4-5	1.5	8.4	1.5-2.5	≤11.0	12	20@1.05&3.0GHz,30@0.9&3.1GHz	5.5×4.5×0.1	FET	
			2.3-3.5	≤11.0	12	20@1.45&4.45GHz,30@1.2&4.7GHz			
			3.0-5.0	≤11.0	12	20@2.25&5.85GHz,30@2.1&6.3GHz			
			4.5-6.5	≤10.5	12	20@3&8.7GHz,40@2.4&9.6GHz			
			6-8.4	≤11.0	12	20@4.2&10.3GHz,40@3.9&10.8GHz			

Part Number	Low Freq. (GHz)	High Freq. (GHz)	Pass Band Freq.(GHz)	Pass Band IL(dB)	RL (dB)	Rejection (dBc) min.	Dimension (mm)	Swich Type	Datasheet
BWSBF-2/6-4	1.5	7	1.5-3.8	≤6.0	12	20@1&4.6GHz,40@0.78&5.4GHz	4.35×3.4×0.1	PIN	
			2.9-4.6	≤6.2	12	20@2.1&5.35GHz,40@1.83&5.75GHz			
			3.8-5.5	≤6.2	12	20@2.95&6.4GHz,40@2.44&6.87GHz			
			4.6-7	≤6.2	12	20@3.89&7.9GHz,40@3.7&8.32GHz			
BWSBF-2/8-4	1.6	8.2	1.6-3.2	≤5.4	12	20@1&3.8GHz,40@0.82&4.1GHz	4.35×3.4×0.1	PIN	
			2.6-4.9	≤5.6	12	20@1.64&5.91GHz,40@1.38&6.7GHz			
			4.0-6.7	≤5.0	12	20@3.0&7.8GHz,40@2.78&8.35G			
			6.0-8.2	≤4.8	12	20@4.85&9.65GHz,40@4.5&10.25GHz			
PDSBF6-1R7/12R3	1.7	12.3	1.7-2.65	≤8	12	20@0.98&3.36GHz	5.5×5×0.15	FET	
			2.05-3.55	≤8	12	20@0.92&4.67GHz			
			2.95-4.85	≤8	12	20@1.52&6.28GHz			
			4.25-6.55	≤8	12	20@2.52&8.3GHz			
			5.95-8.95	≤8	12	20@3.7&11.2GHz			
			8.35-12.3	≤8	12	20@6.35&14.5GHz			
BWSBF3-1R9/6R8-9C8	1.9	6.8	1.9-3.4	≤7.5	10	40@0.9&4.5GHz	4.5×4.5×0.1	FET	
			2.6-4.7	≤7.5	10	40@1.5&6GHz			
			3.9-6.8	≤7.5	10	40@2.9&8GHz			
PDSBF4-2/3-5C8	2	3	2.00-2.25	≤8.5	12	20@1.75GHz,25@2.75GHz	4.0×4.5×0.15	FET	
			2.25-2.50	≤8.5	12	20@2.00GHz,25@3.00GHz			
			2.50-2.75	≤8.5	12	20@2.25GHz,25@3.25GHz			
			2.75-3.00	≤8.5	12	20@2.50GHz,25@3.50GHz			
BWSBF-2/6R5-4	2	6.5	2.0-3.0	≤6.5	12	20@1.6&3.55GHz,40@1.4&3.7GHz	4.0×3.5×0.1	FET	
			2.8-3.9	≤6.0	12	20@2.3&4.7GHz,40@2&5GHz			
			3.6-5	≤6.0	12	20@2.95&6.05GHz,40@2.5&6.7GHz			
			4.6-6.5	≤6.0	12	20@3.75&7.6GHz,40@3&7.9GHz			
BWSBF-2/6R8-4	2	6.8	2-3	≤6.0	12	20@1.55&3.6GHz,40@1.3&3.8GHz	4.0×3.5×0.1	FET	
			2.8-3.8	≤6.0	12	20@2.25&4.65GHz,40@1.9&4.95GHz			
			3.8-5.2	≤6.0	12	20@2.9&6.3GHz,40@2.5&7GHz			
			5.0-6.8	≤6.0	12	20@4&8GHz,40@3.2&8.4GHz			
BWSBF-2/18-5	2	18	2-3.5	≤8.5	15	30@1.2&4.5GHz	4.7×4.5×0.1	FET	
			3-5	≤8.5	15	30@2.1&@6.3GHz			
			4.5-7.5	≤8.5	15	30@3.4&8.9GHz			
			7-11.5	≤9	15	30@5.5&13.8GHz			
			11-18	≤8.5	15	30@8.8&21.5GHz			

Part Number	Low Freq. (GHz)	High Freq. (GHz)	Pass Band Freq.(GHz)	Pass Band IL(dB)	RL (dB)	Rejection (dBc) min.	Dimension (mm)	Switch Type	Datasheet
BWSBF5-2/6-9C9	2.2	6	2.2-2.8	≤9.5	12	40@0.5-1.5GHz&3.5-7GHz	5.0×4.5×0.1	FET	
			3.2-3.8	≤9.5	12	40@0.5-2.4GHz&4.7-7GHz			
			4.2-4.8	≤9.5	12	40@0.5-3.3GHz&5.8-7GHz			
			5.2-5.8	≤9.5	12	40@0.5-4.2GHz&6.8-7GHz			
			2-6	≤2.5	12	-			
PDSBF4-2R7/3R5-5D7	2.7	3.5	2.75-3	≤8	10	35dBc@2.4GHz,30dBc@3.3GHz	5×5×0.15	FET	
			2.95-3.25	≤8	10	35dBc@2.65GHz,28dBc@3.55GHz			
			3.25-3.5	≤8	10	35dBc@2.9GHz,25dBc@3.8GHz			
PDSBF3-3/5	2.85	5.15	2.85-3.15	≤6.0	12	35@2.4&3.6GHz	5.5×5.0×0.15	FET	
			3.85-4.15	≤6.0	12	30@3.4&4.6GHz			
			4.85-5.15	≤6.0	12	30@4.4&5.6GHz			
PDSBF4-3/4-4C8	3	4	3-3.25	≤9	12	15@2.75GHz,25@3.75GHz	4.0×4.5×0.15	FET	
			3.25-3.5	≤9	12	15@3GHz,25@4GHz			
			3.5-3.75	≤9	12	15@3.25GHz,25@4.25GHz			
			3.75-4	≤9	12	13@3.5GHz,25@4.5GHz			
BWSBF-3/10-4	3	10	3-4.8	≤6.5	12	20@1.9&6.5GHz,40@1.2&8.5GHz	3.6×3.3×0.1	FET	
			4.3-6.5	≤7.0	12	20@2.7&7.8GHz,40@1.7&8.8GHz			
			6.0-8.0	≤7.5	12	20@4.85&10GHz,40@4.4&13.2GHz			
			7.5-10	≤7.0	12	20@5.8&13GHz,40@5.2&17.5GHz			
PDSBF-3/20-4	3	20	3-5	≤10.0	12	20@1.8&5.9GHz,30@1.3&6.1GHz	4.0×3.0×0.15	FET	
			5-8	≤9.0	12	20@3&9.5GHz,30@2.5&9.8GHz			
			8-13	≤10.0	12	20@6.6&15.2GHz,30@6.3&15.5GHz			
			13-20	≤10.0	12	20@9.4&24.4GHz,30@8.4&24.9GHz			
BWSBF4-3/9R8-6C6	3	9.8	3-4	≤7	12	30@6-9GHz,35@11-16GHz	4.5×4.5×0.1	FET	
			4-5.6	≤7	12	30@8-10GHz,35@11-18GHz			
			5.6-8.0	≤7	12	30@11-12GHz,35@13-20GHz			
			7.8-9.8	≤7	12	18@11-13GHz,35@14-22GHz			
PDSBF4-3R27/4R07-5D6	3.27	4.07	3.27-3.57	≤8	12	32@2.87&3.97GHz	5×4.5×0.15	FET	
			3.52-3.82	≤8	12	32@3.12&4.22GHz			
			3.77-4.07	≤8	12	32@3.37&4.47GHz			
BWSBF4-4R5/13R5-5C7	4.5	13.5	4.5-7.5	≤9.0	12	40@3.5&9.5GHz	4.5×4.0×0.1	PIN	
			6.5-9.5	≤9.0	12	40@5&12GHz			
			8.5-11.5	≤9.0	12	40@6.5&14.5GHz			
			10.5-13.5	≤9.0	12	40@8&17GHz			

Part Number	Low Freq. (GHz)	High Freq. (GHz)	Pass Band Freq.(GHz)	Pass Band IL(dB)	RL (dB)	Rejection (dBc) min.	Dimension (mm)	Switch Type	Datasheet
PDSBF4-5/13-5D6	5	13	5-7	≤8.0	12	40@3.4&8.6GHz	5×4.5×0.15	FET	
			7-9	≤8.0	12	40@5.4&10.6GHz			
			9-11	≤8.0	12	35@7.4&12.6GHz			
			11-13	≤8.0	12	35@9.4&14.6GHz			
BWSBF4-5/18-7C	5	18	5-9	≤11.5	12	40@11-15&2-3.5GHz	4.2×3.2×0.1	FET	
			8-12	≤10	12	40@14-18&2-6GHz			
			11-15	≤10	12	40@5-9&19-22GHz			
			14-18	≤10	12	40@8-11&22-25GHz			
PDSBF4-5R05/7R35-5D8	5	7.35	5.0-5.5	≤10.5	12	30@4.4&6.1GHz	4.5×4.5×0.15	FET	
			5.45-6.05	≤10.5	12	30@4.8&6.6GHz			
			6.0-6.65	≤10.5	12	30@5.2&7.4GHz			
			6.6-7.35	≤10.5	12	30@5.7&8.1GHz			
BWSBF-6/12-5	6	12	6-8	≤12.5	12	30@3.5&11.5GHz	4×3.6×0.1	FET	
			8-9	≤12.5	12	30@6&11.4GHz			
			9-10	≤12.5	12	30@7&12GHz			
			10-11	≤12.5	12	30@8.2&12.8GHz			
			11-12	≤12.5	12	30@9.4&14.6GHz			
BWSBF-6/18-4	6	18	6-8	≤6.0	12	20@4.7&10GHz,40@3.8&10.8GHz	3.8×3.2×0.1	FET	
			7.5-10	≤7.0	12	20@6&12.1GHz,40@5.7&12.8GHz			
			9.5-13	≤7.5	12	20@7.7&15.2GHz,30@7.4&15.5GHz			
			12.5-18	≤8.5	12	20@10.2&20.3GHz,40@9.5&21GHz			
BWSBF4-6/18-9C8	6	18	6-10	≤9.5	10	40@DC-4.6GHz&12-20GHz	4.5×4.5×0.1	FET	
			8-14	≤9.5	10	40@DC-6.4GHz&16.5-24GHz			
			12-18	≤9.5	10	40@DC-9.6GHz&22-24GHz			
			6-18(HPF)	≤9.5	10	40dBc@DC-4.6GHz			
PDSBF4-6R5/9R5	6.5	9.5	6.5-8	≤8.5	12	15@5.7&8.8GHz	4×3.8×0.15	FET	
			7-8.5	≤8.5	12	15@6.2&9.3GHz			
			7.5-9	≤8.5	12	15@6.7G&9.8GHz			
			8-9.5	≤8.5	12	15@7.2&10.3GHz			
PDSBF4-6R85/10R15-5D7	6.85	10.15	6.85-7.9	≤7.5	10	40@5.8&9.3GHz	5.5×4.5×0.15	FET	
			7.6-8.65	≤7.5	10	40@6.5&10GHz			
			8.35-9.4	≤7.5	10	40@7.2&10.6GHz			
			9.1-10.15	≤7.5	10	40@8&11.4GHz			

Part Number	Low Freq. (GHz)	High Freq. (GHz)	Pass Band Freq.(GHz)	Pass Band IL(dB)	RL (dB)	Rejection (dBc) min.	Dimension (mm)	Swich Type	Datasheet
PDSBF4-6R95/13R05-5D8	6.95	13.05	6.95-7.55	≤9	10	40@5.7&8.7GHz	5.5×4.5×0.15	FET	
			7.45-8.05	≤9	10	40@6.2&9.5GHz			
			11.95-12.55	≤9	10	40@10.5&14.0GHz			
			12.45-13.05	≤9	10	40@11.0&14.5GHz			
PDSBF4-7R3/10R55-7D9	7.3	10.55	7.3-8.15	≤9	12	40@6.45&9.40GHz	4.5×4.5×0.15	FET	
			8.1-8.95	≤9	12	40@7.2GHz,30@9.8GHz			
			8.9-9.75	≤9	12	40@8.0GHz,40@11GHz			
			9.7-10.55	≤9	12	40@8.5GHz,30@11.6GHz			
PDSBF4-7R7/9R3-5D8	7.7	9.3	7.7-8.55	≤8.0	12	25@7.02GHz,15@9.23GHz	4.5×4.5×0.15	FET	
			7.95-8.8	≤8.0	12	25@7.275GHz,15@9.475GHz			
			8.2-9.05	≤8.0	12	25@7.525GHz,15@9.725GHz			
			8.45-9.3	≤8.0	12	25@7.775GHz,15@9.975GHz			
BWSBF-7R8/10R9-3	7.8	10.9	7.8-9.1	≤4.6	11	20@6.9&10.16GHz,40@6.6&11.2GHz	4.0×4.3×0.1	PIN	
			8.2-9.8	≤4.4	11	20@7.27&10.2GHz,40@6.9&12.13GHz			
			8.8-10.9	≤4.2	11	20@7.8&12.4GHz,40@7.35&12.9GHz			
BWSBF-7R8/18-3	7.8	18.1	7.8-9.6	≤4.2	11	20@6.9&10.8GHz,40@6.55&11.7GHz	3.8×3.8×0.1	PIN	
			10.2-12.7	≤4.2	11	20@9.2&14.2GHz,40@8.7&15.05GHz			
			15.8-18.1	≤4.3	11	20@14.2&20.1GHz,40@12.9&21.1GHz			
PDSBF4-8/10-5D9	7.85	10.15	7.85-8.65	≤7.5	12	15@9.25GHz,40@6.4GHz	4.5×4.5×0.15	FET	
			8.35-9.15	≤7.5	12	15@9.75GHz,40@6.9GHz			
			8.85-9.65	≤7.5	12	15@8.25&10.25GHz,40@7.4GHz			
			9.35-10.15	≤7.5	12	15@8.75&10.75GHz,40@7.9GHz			
PDSBF4-7R9/12R1-4D9	7.9	12.1	7.9-9.1	≤8.0	10	40@6.5&10.600GHz	5.5×4.5×0.15	FET	
			8.9-10.1	≤8.0	10	40@7.5&11.800GHz			
			9.9-11.1	≤8.0	10	40@8.5&12.600GHz			
			10.9-12.1	≤8.0	10	40@9.5&13.600GHz			
PDSBF4-7R98/9R22-4D9	7.98	9.22	7.98-8.32	≤8.5	12	20@7.47&8.83GHz	5.5×4.5×0.15	FET	
			8.28-8.62	≤8.5	12	20@7.77&9.13GHz			
			8.58-8.92	≤8.5	12	20@8.07&9.43GHz			
			8.88-9.22	≤8.5	12	20@8.37&9.73GHz			
PDSBF-8/12-2	8	12	8-10	≤5.5	12	20@7.15&10.9GHz,30@7&11.05GHz	2.8×2.8×0.15	FET	
			10-12	≤6.0	12	20@8.55&12.9GHz,30@8.4&13.1GHz			

Part Number	Low Freq. (GHz)	High Freq. (GHz)	Pass Band Freq.(GHz)	Pass Band IL(dB)	RL (dB)	Rejection (dBc) min.	Dimension (mm)	Swich Type	Datasheet
BWSBF-8/12-4	8	12	8-9.6	≤9.0	10	30@6.8&10.8GHz	3.6×4.9×0.1	FET	
			8.8-10.4	≤9.0	10	30@7&11.6GHz			
			9.6-11.2	≤9.0	10	30@8.4&12.4GHz			
			10.4-12	≤10.0	10	30@9.2&13.2GHz			
PDSBF4-8/12-5D6	8	12	8-9	≤7	12	40@6.6&10.8GHz	5.0×4.5×0.15	FET	
			9-10	≤7	12	40@7.5&12GHz			
			10-11	≤7	12	40@8.4&12.6GHz			
			11-12	≤7	12	40@9.3&13.8GHz			
PDSBF4-8/12-5D7	8	12	8-9	≤7	10	40@6.6&10.8GHz	4.5×4.5×0.15	FET	
			9-10	≤7	10	40@7.5&12GHz			
			10-11	≤7	10	40@8.4&12.8GHz			
			11-12	≤7	10	40@9.0&13.8GHz			
BWSBF-8/12-4A	8	12	8-9.6	≤8.7	10	30@6.8G&10.9GHz	3.6×4.9×0.1	FET	
			8.8-10.4	≤9	10	30@6.9G&11.7GHz			
			9.6-11.2	≤8.8	10	30@8.4G&12.7GHz			
			10.4-12	≤9.3	10	30@9.1G&13.3GHz			
BWSBF-8/13R5-3	8	13.5	8-10	≤5.0	12	20@7&11.1GHz,40@6.7&11.6GHz	4.0×4.0×0.1	PIN	
			10-12	≤4.5	12	20@8.7&13.7GHz,40@8.2&14.6GHz			
			12-13.5	≤5.5	12	20@10.6&14.4GHz,40@10&14.7GHz			
BWSBF-8R2/15R3-3	8.2	15.3	8.2-10.2	≤4.2	11	20@7.34&11.4GHz,40@6.95&12.1GHz	3.8×3.8×0.1	PIN	
			10.8-13.8	≤4.2	11	20@9.8&15.44GHz,40@9.2&16.33GHz			
			13.2-15.3	≤4.6	11	20@12&17GHz,40@11.4&17.92GHz			
PDSBF4-8R7/10R3-5D8	8.7	10.3	8.7-9.55	≤8.5	12	25@8.025GHz,15@10.225GHz	4.5×4.5×0.15	FET	
			8.95-9.8	≤8.5	12	25@8.275GHz,15@10.475GHz			
			9.2-10.05	≤8.5	12	25@8.525GHz,15@10.725GHz			
			9.45-10.3	≤8.5	12	25@8.775GHz,15@10.975GHz			
BWSBF-9/16R4-3	9	16.4	9-11.2	≤4.2	11	20@8.1&12.62GHz,40@7.7&13.43GHz	3.8×3.8×0.1	PIN	
			12.3-14.5	≤4.5	11	20@11.2&16.2GHz,40@10.55&17.1GHz			
			14.2-16.4	≤4.6	11	20@12.9&18.25GHz,40@12.32&19.2GHz			
PDSBF4-9R18/10R62-4D9	9.18	10.62	9.18-9.57	≤8.5	12	18@8.69&10.06GHz	5.5×4.5×0.15	FET	
			9.53-9.92	≤8.5	12	18@9.04&10.41GHz			
			9.88-10.27	≤8.5	12	18@9.39&10.76GHz			
			10.23-10.62	≤8.5	12	18@9.74&11.11GHz			

Part Number	Low Freq. (GHz)	High Freq. (GHz)	Pass Band Freq.(GHz)	Pass Band L(dB)	RL (dB)	Rejection (dBc) min.	Dimension (mm)	Switch Type	Datasheet
BWSBF-9R5/18-4	9.5	18	9.5-12	≤7.0	12	20@6.6&14.9GHz,40@5&18.5GHz	3.6×3.3×0.1	FET	
			11.5-14	≤7.5	12	20@8.8&16.9GHz,40@8.1&19.9GHz			
			13.5-16	≤7.5	12	20@10&19.5GHz,40@9&21.5GHz			
			15.5-18	≤7.5	12	20@11.6&22GHz,40@10.4&24.2GHz			
PDSBF4-9R7/11R3-5D8	9.7	11.3	9.7-10.55	≤8.5	12	25@9.025GHz,15@11.225GHz	4.5×4.5×0.15	FET	
			9.95-10.8	≤8.5	12	25@9.275GHz,15@11.475GHz			
			10.2-11.05	≤8.5	12	25@9.525GHz,15@11.725GHz			
			10.45-11.3	≤8.5	12	25@9.775GHz,15@11.975GHz			
PDSBF4-9R85/13R15-5D7	9.85	13.15	9.85-10.9	≤9	10	40@8.6&12.5GHz	5.5×4.5×0.15	FET	
			10.6-11.65	≤9	10	40@9.3&13.3GHz			
			11.35-12.4	≤9	10	40@10&14GHz			
			12.1-13.15	≤9	10	40@10.8&14.5GHz			
PDSBF4-10/12-5D9	9.85	12.15	9.85-10.65	≤8.5	12	15@9.25&11.25GHz,40@8.4GHz	4.5×4.5×0.15	FET	
			10.35-11.15	≤8.5	12	15@9.75&11.75GHz,40@8.9GHz			
			10.85-11.65	≤8.5	12	15@10.25GHz,40@9.4GHz			
			11.35-12.15	≤8.5	12	15@10.75GHz,40@9.9GHz			
BWSBF-9R9/14R2-3	9.9	14.2	9.9-12	≤4.8	11	20@9&13.6GHz,40@8.6&14GHz	4.0×3.9×0.1	PIN	
			11-13.1	≤4.4	11	20@9.9&14.6GHz,40@9.46&15.75GHz			
			12.1-14.2	≤4.9	11	20@11&15.8GHz,40@10.36&17.21GHz			
PDSBF4-10/14-5D7	10	14	10-11	≤10	12	30@8GHz,35@13GHz	4.5×4.5×0.15	FET	
			11-12	≤10	12	30@9GHz,35@14GHz			
			12-13	≤10	12	30@10&15GHz			
			13-14	≤10	12	30@11&16GHz			
BWSBF4-10/18-5D7	10	18	10-12	≤10	12	10@13.3-14.5GHz,35@18.5-21GHz	4.5×4.5×0.15	FET	
			12-13.4	≤10	12	8@14.3-16GHz,35@20.5-22GHz			
			13.4-16.2	≤10	12	13@17.7-18.5GHz,18@11-12GHz			
			16-18	≤10	12	8@19-20GHz,35@5-12GHz			
BWSBF3-10/20-5C8	10	20	10-12.5	≤8.5	10	40@7&16GHz	4.5×3.0×0.1	FET	
			12.5-15.5	≤8.5	10	40@9&19.5GHz			
			15.5-20	≤8.5	10	40@11.8&25.5GHz			
BWSBF-10/18-3	10	18	10-13	≤6.5	12	20@7.7&15.7GHz,40@7.3&18GHz	3.8×3.0×0.1	FET	
			13-15	≤7.0	12	20@10.3&17.8GHz,40@9.6&18.7GHz			
			15-18	≤8.0	12	20@12.7&21GHz,40@12.15&21.9GHz			

Part Number	Low Freq. (GHz)	High Freq. (GHz)	Pass Band Freq.(GHz)	Pass Band IL(dB)	RL (dB)	Rejection (dBc) min.	Dimension (mm)	Swich Type	Datasheet
PDSBF4-10R58/12R02- 4D9	10.58	12.02	10.58-10.97	≤9	12	15@10.09&11.46GHz	5.5×4.5×0.15	FET	
			10.93-11.32	≤9	12	15@10.44&11.81GHz			
			11.28-11.67	≤9	12	15@10.79&12.16GHz			
			11.65-12.02	≤9	12	15@11.15&12.52GHz			
PDSBF4-10R7/12R3-5D8	10.7	12.3	10.7-11.55	≤8.5	12	25@10.025GHz,15@12.225GHz	4.5×4.5×0.15	FET	
			10.95-11.8	≤8.5	12	25@10.275GHz,15@12.475GHz			
			11.2-12.05	≤8.5	12	25@10.525GHz,15@12.725GHz			
			11.45-12.3	≤8.5	12	25@10.775GHz,15@12.975GHz			
PDSBF4-11/14-5D9	11	14	11	≤9	12	40@9.5&12.5GHz	4.5×4.2×0.15	FET	
			12	≤9	12	40@10.5&13.5GHz			
			13	≤9	12	35@11.5&14.5GHz			
			14	≤9	12	35@12.5&15.5GHz			
BWSBF-11/17-4	11	17	11	≤13	12	35@7-10&12GHz	4.6×4.8×0.15	FET	
			13	≤13	12	35@7-12&14GHz			
			15	≤13	12	35@7-14&16GHz			
			17	≤13	12	35@7-16&18GHz			
PDSBF4-12/16-5D7	12	16	12-13	≤7.5	12	30@10GHz,30@15GHz	4.5×4.5×0.15	FET	
			13-14	≤7.5	12	30@11GHz,30@16GHz			
			14-15	≤7.5	12	30@12GHz,30@17GHz			
			15-16	≤7.5	12	30@13GHz,30@18GHz			
BWSBF-12/18-4	12	18	12	≤13	12	35@7-11&13GHz	4.6×4.8×0.15	FET	
			14	≤13	12	35@7-13&15GHz			
			16	≤13	12	35@7-15&17GHz			
			18	≤13	12	35@7-17&19GHz			
BWSBF-12/18-5	12	18	12-13	≤12	12	30@10.4GHz&15.1GHz	4×3.7×0.1	FET	
			13-14	≤12	12	30@11.1GHz&16.4GHz			
			14-15	≤12	12	30@12.2GHz&16.8GHz			
			15-16	≤12	12	30@13.2GHz&18.5GHz			
			16-18	≤12	12	30@12.8GHz&22.4GHz			
PDSBF2-12R2/14R6	12.2	14.6	12.2-13.4	≤7.5	12	35@10.8GHz,15@14GHz	4.5×4.0×0.15	FET	
			13.4-14.6	≤7.5	12	35@12GHz,15@15.2GHz			

Part Number	Low Freq. (GHz)	High Freq. (GHz)	Pass Band Freq.(GHz)	Pass Band L(dB)	RL (dB)	Rejection (dBc) min.	Dimension (mm)	Switch Type	Datasheet
BWSBF-13R2/18R5-4	13.2	18.5	13.2-15.3	≤5.0	11	20@11.9&17.1GHz,40@11.35&17.7GHz	4.0×4.5×0.1	PIN	
			14.3-16.4	≤5.3	11	20@13&18.5GHz,40@12.4&19.5GHz			
			15.4-17.5	≤4.4	11	20@13.75&19.85GHz,40@13.05&20.9GHz			
			16.5-18.5	≤5.1	11	20@14.5&20.4GHz,40@13.2&20.3GHz			
BWSBF-13R5/18-3	13.5	18	13.5-15	≤5.5	12	20@12&16.2GHz,40@11.4&17GHz	4.0×4.0×0.1	PIN	
			15-16	≤6.0	12	20@13.3&17.1GHz,40@12.8&17.9GHz			
			16-18	≤6.0	12	20@14.1&19.4GHz,40@13.4&20.4GHz			
PDSBF2-14R8/17R3-5D7	14.8	17.3	14.8-16	≤7.5	12	35@13.3GHz,20@17.3GHz	4.5×4.0×0.15	FET	
			16-17.3	≤7.5	12	35@14.6GHz,25@18.6GHz			
BWSBF-15/20-3	15	20	15-16	≤11	12	30@7-13GHz,25@17-30GHz	4.6×4.1×0.15	FET	
			17-18	≤11	12	30@7-15GHz,25@19-30GHz			
			19-20	≤11	12	30@7-17GHz,25@21-30GHz			
PDSBF2-16/18-5D6	16	18	16-17	≤8	10	30@14&19GHz	4.0×2.5×0.15	FET	
			17-18	≤8	10	30@15&20GHz			
PDSBF4-16/20-5D7	16	20	16-17	≤7.5	12	30@14GHz,30@19GHz	4.5×4.5×0.15	FET	
			17-18	≤7.5	12	30@15GHz,30@20GHz			
			18-19	≤7.5	12	30@16GHz,30@21GHz			
			19-20	≤7.5	12	30@17GHz,30@22GHz			
BWSBF-16/21-3	16	21	16-17	≤11	12	30@7-14GHz,25@18-30GHz	4.6×4.1×0.15	FET	
			18-19	≤11	12	30@7-14GHz,25@18-30GHz			
			20-21	≤11	12	30@7-14GHz,25@18-30GHz			
BWSBF-17R5/31R1-3	17.5	31.1	17.5-22.5	≤4.3	11	20@15.5&24.8GHz,40@14.6&26.1GHz	4.0×3.9×0.1	PIN	
			21.5-26.7	≤4.2	11	20@19.1&29.4GHz,40@18.34&31.4GHz			
			25.7-31.1	≤4.3	11	20@22.4&34GHz,40@21.3&35.5GHz			
BWSBF2-17R8/29-5D6	17.8	29	17.8~23	≤8	10	40dBc@11.5GHz,30dBc@26.7GHz	3.0×2.5×0.1	FET	
			23~29	≤8	10	40dBc@14.5GHz,30dBc@34.5GHz			
BWSBF-18/40-3	18	40	18-24	≤5.2	10	30@16&28.1GHz	3.4×3.5×0.1	PIN	
			23-30.5	≤5.2	10	30@20.8&36.5GHz			
			29.5-40	≤5.2	10	30@20.8&46GHz			
BWSBF-18/40-3A	18	40	18-24	≤5.2	10	30@16&28.1GHz	3.35×3.41×0.1	FET	
			23-30.5	≤5.2	10	30@20.8&36.5GHz			
			29.5-40	≤5.2	10	30@20.8&46GHz			

MMIC Filter Bank

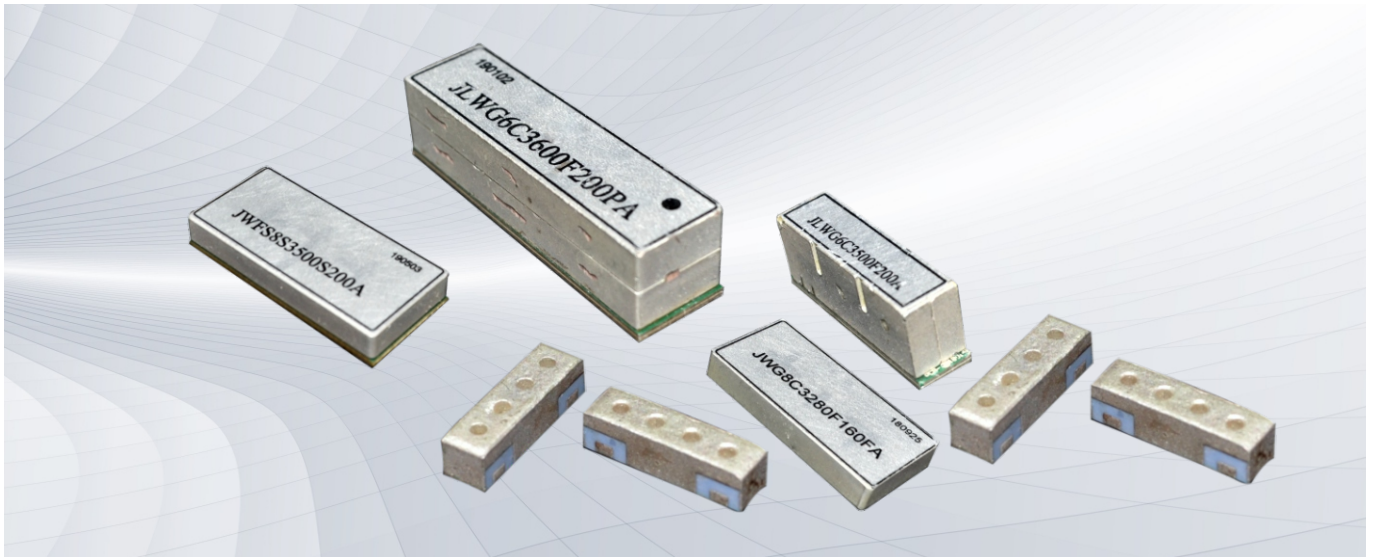
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Part Number	Low Freq. (GHz)	High Freq. (GHz)	Pass Band Freq.(GHz)	Pass Band IL(dB)	RL (dB)	Rejection (dBc) min.	Dimension (mm)	Switch Type	Datasheet
BWSBF-20/40-3	19.5	40.5	19.5-20.5	≤10.0	10	20@17&22.8GHz,30@16.5&23.4GHz	4.4×4.7×0.1	FET	
			27.5-28.5	≤9.8	10	20@25&30.7GHz,30@24.4&31.7GHz			
			39.5-40.5	≤9.0	10	20@36.2&43.4GHz,30@35.7GHz			
BWSBF-24/40-4	24	40	24-28	≤9.3	10	20@21.57&30.2GHz,30@21&30.6GHz	4.4×5.4×0.1	FET	
			28-32	≤9.5	10	20@25.2&34.2GHz,30@24.4&34.6GHz			
			32-36	≤12.0	10	20@30&38.4GHz,30@29&39GHz			
			36-40	≤10.5	10	20@33&42.5GHz,30@32.5&43.1GHz			
BWSBF-30R1/40-2	30.1	35.7	30.1-35.7	≤3.9	10	20@27.1&38.4GHz,40@26.5&40.2GHz	3.8×2.6×0.1	PIN	
			34.7-40	≤4.4	10	20@31.3GHz,40@30.6GHz			

INTRODUCTION

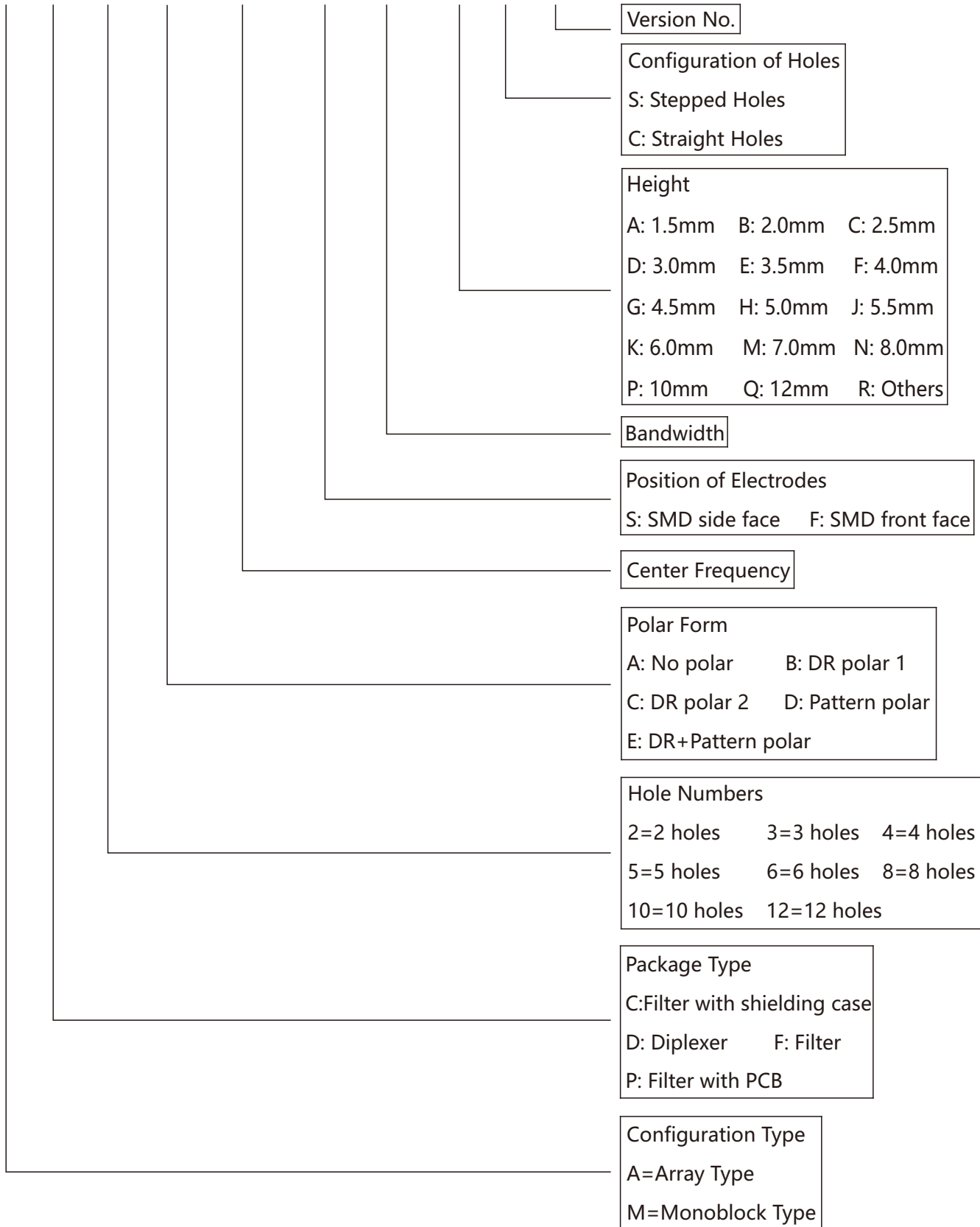
Dielectric filter utilizes an array of holes at pre-determined intervals, in a dielectric block of low dielectric loss, and a conductor film that is formed on the surface of the block and the inner surfaces of the holes. This constitutes resonators which resonance frequency is determined by the depth of each hole.

We provide customized dielectric filters up to 10GHz, with wide bandwidth, excellent performance, and compact size. Rapid response, high-volume production capacity and competitive prices are our advantages. Our filters are widely used in many applications, such as Microwave Telecommunications, 5G Communications, IoT, Radar, ECM, Aerospace, Navigation etc.



Numbering Rules

A F 10 A 1985 F 370 F C A



Part Number	Center Freq. (MHZ)	Bandwidth (MHZ)	I.L.(dB) max.	Ripple(dB) max.	Return Loss (dB)min.	Attenuation (dB) min.	Size (mm)	Datasheet
MC6A456F11NCA	456	11	5	1.5	16	25min@467MHz	24.0x17.25x8.0	
AF5A485S70KCA	485	70	1	0.5	14	10.0dBc@400MHz	32.0x25.0x8.0	
						10.0dBc@570MHz		
						40.0dBc@350MHz		
						40.0dBc@620MHz		
MF2A514F8KCA	514	8	1.2	0.5	14	25@f0±100MHz	11.3x14.5x6.0	
MF2A546F8KCA	546	8	1.2	0.5	14	25@f0±100MHz	11.3x13.6x6.0	
MF2A602F8KCA	602	8	1.2	0.5	14	25@f0±100MHz	11.3x12.3x6.0	
MF3A634S35DCA	634.5	35	2.5	0.3	16	30@DC~350MHz	8.0x10.5x3.0	
						25@728~768MHz		
						30@862~894MHz		
AF5A640S10FCA	640	10*	5	0.5	14	35dBc@670MHz	23.0x18.5x5.5	
						70dBc@700MHz		
						30dBc@610MHz		
						35dBc@580MHz		
MF2A650F8KCA	650	8	1.2	0.5	14	25@f0±100MHz	11.3x11.4x6.0	
MP10C670F60NCA	670	60	4	1	14	70@600MHz	42.0x17.0x9.0	
						60@740MHz		
MP10C680F35NCA	680.5	35	3	1.5	15	45@617~652MHz	42.0x17.0x9.0	
MC6A742F89HCA	742.5	89	2	0.8	15	50dBc@DC~520MHz	13.0x10.7x5.0	
						25dBc@520~616MHz		
						20dBc@657MHz		
						20dBc@862~894MHz		
AF5A745F90HCA	745	90	2	1	4	30@660MHz	26.5x16.4x6.5	
						30@866MHz		
						40@1000~1650MHz		
MF3A748S40DCA	748	40	2.2	0.2	15	15@600~678MHz	8.0x10.3x3.0	
						15@818~900MHz		
						25@1000~1500MHz		
						10@1500~1550MHz		
						3@1800~1930MHz		
						40@100~350MHz		

Remarks: * it is 3dB Bandwidth.

Part Number	Center Freq. (MHZ)	Bandwidth (MHZ)	I.L.(dB) max.	Ripple(dB) max.	Return Loss (dB)min.	Attenuation (dB) min.	Size (mm)	Datasheet
MF3A748S40DCB	748	40	2.5	0.2	17	35@200~450MHz	8.0x10.3x3.0	
						25@450~652MHz		
						25@869~1000MHz		
						1.5@777~798MHz		
						15@817~849MHz		
						25@862~894MHz		
						0@1695~1955MHz		
						0@2110~2690MHz		
						5.5@663~698MHz		
						1.4@698~716MHz		
MF4A777F45FCA	777.5	45	3	0.5	17	45dBc@487~645MHz	10.8x9.0x3.6	
						45dBc@1280~1300MHz		
MF3A780S45DCA	780.5	45	2.2	0.2	15	15@650~708MHz	8.0x9.9x3.0	
						15@853~900MHz		
						23@1000~1500MHz		
						40@100~350MHz		
MF4A806F30FCA	806	30	3	0.5	17	45dBc@600~710MHz	10.8x8.4x3.6	
						25dBc@925~960MHz		
						40dBc@1041~1300MHz		
AF4A815S5DCA	815	5	3	1	14	40@f0+100MHz	13.0x15.4x4.5	
MC6A833F32HCA	833	32	2.2	0.5	16	30dBc@DC~600MHz	13.0x10.4x5.0	
						25dBc@617~768MHz		
						30dBc@979~1100MHz		
						7dBc@862~894MHz		
AF4A850S20DCA	850	20	6	-	14	50@1000MHz	18.5x15.4x4.5	
						40@600MHz		
						40@5650~6050MHz		
						40@6400~6900MHz		
MF3A878S32DCC	878	32	2.7	0.3	15	20@768~812MHz	8.0x8.6x3.0	
						20@944~1000MHz		
						28@1000~1500MHz		
						30@400~768MHz		
						40@DC~400MHz		

Part Number	Center Freq. (MHZ)	Bandwidth (MHZ)	I.L.(dB) max.	Ripple(dB) max.	Return Loss (dB)min.	Attenuation (dB) min.	Size (mm)	Datasheet
MF4A878F32FCA	878	32	3	0.6	17	35@200~728MHz	10.8x8.6x3.5	
						25@728~757MHz		
						4@855.5MHz		
						25@1000~1900MHz		
MF3A916F20NCA	916	20	1	1	14	6@856~886MHz	16.0x13.0x8.0	
						6@946~976MHz		
MF4A942F35FCA	942.5	35	3	0.7	15	45@460~710MHz	10.8x8.0x3.6	
						20@791~821MHz		
						45@1041MHz		
						45@1122~1157MHz		
						40@1420~1460MHz		
						15@2090MHz		
AF6A997F8FCA	997	8	6.5	1	14	60dBc@f0+35MHz	26.0x14.0x5.2	
						65dBc@f0-35MHz		
MC6A1030F13HCB	1030	13	5	1.1	14	11dBc@f0-12MHz	20.5x13.3x5.4	
						9dBc@f0+12MHz		
						31dBc@f0±17MHz		
						41dBc@f0-130~f0-22MHz		
						41dBc@f0+22~f0+190MHz		
MC6A1090F13HCB	1090	13	5	1.1	14	11dBc@f0-12MHz	20.5x12.6x5.4	
						9dBc@f0+12MHz		
						31dBc@f0±17MHz		
						41dBc@f0-130~f0-22MHz		
						41dBc@f0+22~f0+190MHz		
AF5A1130S340NCA	1130	340	0.8	0.5	14	30@810MHz	47.0x23.0x9.5	
						22@1450MHz		
						45@660MHz		
						40@1600MHz		
						60@460MHz		
						65@1800MHz		
						40@6000MHz		

Part Number	Center Freq. (MHZ)	Bandwidth (MHZ)	I.L.(dB) max.	Ripple(dB) max.	Return Loss (dB)min.	Attenuation (dB) min.	Size (mm)	Datasheet
MC8A1150F100NCA	1150	100	2.5	1	15	40@DC~900MHz	30.0x10.2x8.5	
						20@1000~1080MHz		
						20@1220~1300MHz		
						40@1300~1700MHz		
AF5A1223S120FCA	1223	120	2	0.5	12	55@DC~1003MHz	30.0x16.0x5.5	
						5@1003~1120MHz		
						10@1320~1565MHz		
						50@1565~1900MHz		
						55@1900~6500MHz		
MF3A1227F20GCA	1227.6	20	1.5	0.5	1	35@1087.6MHz	11.75x9.22x4.5	
						7@1192.6MHz		
						7@1262.6MHz		
						30@1367.6MHz		
AF6B1300F125FCA	1300	125	2.5	0.5	15	50dBc@DC~1000MHz	38.11x14.6x5.5	
						50dBc@1500~6000MHz		
AF6A1300F200HCC	1300	200	1.5	0.2	14	60@1000MHz	32.5x13.0x6.1	
						65@2000MHz		
MP8A1300F100NCA	1300	100	1.5	0.8	17.6	50@1400~1500MHz	33.4x11.5x9.0	
						60@1550~1650MHz		
AF4A1380S300DCA	1380	300	1	1	14	30dBc@1000MHz	13.0x12.0x4.0	
						38dBc@2000MHz		
MP5A1413S45FCA	1413	45	1.9	1	14	40@1200MHz	17.80x12.70x5.08	
						40@1600MHz		
						60@800MHz		
						60@2000MHz		
MP8A1450F100NCB	1450	100	1.5	0.8	17.6	50@1250~1350MHz	33.4x11.5x9.0	
						40@1550~1650MHz		
AF6A1490S50FCA	1490	50	2.5	1.5	14	50@1290~1330MHz	26.4x14.0x4.83	
						40@1400MHz		
						5@1450MHz		
						5@1530MHz		

Part Number	Center Freq. (MHZ)	Bandwidth (MHZ)	I.L.(dB) max.	Ripple(dB) max.	Return Loss (dB)min.	Attenuation (dB) min.	Size (mm)	Datasheet
AF10A1500F600FCB	1500	600	2	1	14	50@1000MHz	50.0x16.0x5.1	
						40@2000MHz		
						30@2000~4800MHz		
AF6B1570F125FCA	1570	125	1.8	0.5	15	50dBc@1800-6000MHz	38.11x14.6x5.5	
MF3A1574F21GCA	1574.9	21	1.8	0.5	10	35@1435.4MHz	11.75x7.55x4.5	
						7@1540.4MHz		
						7@1610.4MHz		
						30@1715.4MHz		
MC4A1630F52FCA	1630	52	3.5	1	15	14.0@fo±55MHz	11.9x9.2x4.2	
						30.0@fo±100MHz		
						60.0@1884MHz		
						35.0@3400MHz		
						35.0@3520MHz		
						23.0@3680MHz		
MC6A1725F70HCA	1725	70	2	1	14	65@1550MHz	20.5x8.4x5.4	
						40@1830MHz		
						50@fo±150MHz		
MF3A1732S45DCA	1732.5	45	3	0.2	17	25@698~849MHz	8.0x6.8x3.0	
						25@1850~1915MHz		
MC6A1737F85HCA	1737.5	85	2	0.4	17	50dBc@DC~960MHz	13.0x7.8x5.0	
						25dBc@1520~1590MHz		
						10dBc@1635MHz		
						30dBc@1930~1995MHz		
						40dBc@2100~2200MHz		
						50dBc@2300~2700MHz		
						20dBc@2300~2800MHz		
MC6A1745F70HCA	1745	70	2	0.3	17	50dBc@DC~960MHz	13.0x7.8x5.0	
						25dBc@1520~1590MHz		
						10dBc@1650MHz		
						0dBc@1930~1995MHz		
						40dBc@2100~2200MHz		
						42dBc@2300~2700MHz		
						20dBc@2300~2800MHz		

Part Number	Center Freq. (MHZ)	Bandwidth (MHZ)	I.L.(dB) max.	Ripple(dB) max.	Return Loss (dB)min.	Attenuation (dB) min.	Size (mm)	Datasheet
MF2A1762S10DCA	1762	10	3	1	14	40@2020~2200MHz	4.7x4.5x3.3	
MP10C1810F200NCA	1810	200	3	2	15	30@1930~2155MHz	42.0x17.0x9.0	
						45@617~652MHz		
MC6A1820F140HCA	1820	140	2	1	14	25@1700MHz	20.5x8.0x5.4	
						40@1950MHz		
						50@f0±150MHz		
MC4A1842S75DCA	1842.5	75	2.5	0.3	15	40@30~1700MHz	8.0x7.8x3.2	
						35@1950~2800MHz		
MF4A1882F65FCA	1882.5	65	4.3	2.5	10	5dBc@1922.5MHz	10.0x6.1x3.6	
						30dBc@100~1800MHz		
						30dBc@2110~2700MHz		
MC6A1882F65HCA	1882.5	65	2.6	1	15	50dBc@DC~894MHz	13.0x7.5x5.0	
						25dBc@1703~1780MHz		
						20@1809MHz		
						5dBc@1930~1995MHz		
						40dBc@2100~2200MHz		
						50dBc@2300~2500MHz		
						40dBc@2500~3000MHz		
MC4A1900F200FCA	1900	200	1.2	0.5	16	40@1600MHz	10.64x7.4x3.85	
						40@2200~2800MHz		
						30@2800~3500MHz		
MF4A1962F65FCA	1962.5	65	3	1	15	3dBc@1922.5MHz	10x5.9x3.6	
						20dBc@100~1800MHz		
						30dBc@2110~2700MHz		
MC6A1962F225HCA	1962.5	225	2	0.4	16	45@DC~350MHz	13.0x6.4x5.0	
						40@1590~1655MHz		
						25@1655~1720MHz		
						7.0@1720~1785MHz		
						2.0@1785~1800MHz		
						2.0@2125~2140MHz		
						4.0@2140~2205MHz		
						21@2205~2270MHz		
						40@2270~2335MHz		
						15@3860~3990MHz		

Part Number	Center Freq. (MHZ)	Bandwidth (MHZ)	I.L.(dB) max.	Ripple(dB) max.	Return Loss (dB)min.	Attenuation (dB) min.	Size (mm)	Datasheet
MC6A1975F270HCA	1975	270	2	0.35	16	45@DC~350MHz	13.0x6.4x5.0	
						40@1590~1655MHz		
						25@1655~1720MHz		
						7@1695~1780MHz		
						18@2205~2270MHz		
						35@2270~2335MHz		
						15@3860~3990MHz		
AF10A1985F370FCA	1985	370	2.3	1	15	50@1600MHz	42.0x14.5x5.1	
						50@2500MHz		
						70@2400MHz		
MF4A2050S100FCA	2050	100	1.7	-	14	30@fo±150MHz	9.6x7.6x3.5	
MC6A2070F104HCA	2070	104	2.5	1	14	50dBc@DC~1900MHz	13.0x9.2x5.0	
						40dBc@2240~2340MHz		
MF4A2072S95MCA	2072.5	95	1	0.5	14	20dBc@1850~1950MHz	11.6x7.8x7.0	
						25dBc@2200~2300MHz		
MC6A2125F140HCA	2125	140	2	0.5	14	40dBc@1770MHz	20.5x9.0x5.4	
						30dBc@1980MHz		
						40dBc@2400MHz		
						65dBc@2610MHz		
MF3A2145S70DCB	2145	70	2.7	0.3	17	20@1930~2010MHz	8.0x7.4x3.0	
						20@2285~2345MHz		
						30@2345~3000MHz		
						40@DC~1930MHz		
MC6A2155F270HCA	2155	270	2	0.3	15	45@DC~350MHz	13.0x7.9x5.0	
						35@1700~1730MHz		
						25@1730~1820MHz		
						20@1820~1910MHz		
						4.0@1910~1965MHz		
						5.0@2345~2400MHz		
						17@2400~2490MHz		
						35@2490~2580MHz		
						45@2580~2690MHz		
						15@4220~4400MHz		

Part Number	Center Freq. (MHZ)	Bandwidth (MHZ)	I.L.(dB) max.	Ripple(dB) max.	Return Loss (dB)min.	Attenuation (dB) min.	Size (mm)	Datasheet
MF4A2250S100HCC	2250	100	1.5	0.5	14	25@2120MHz	11.5x6.7x5.0	
						25@2380MHz		
MC4A2250F300FCB	2250	300	1	0.5	18	45@DC~1850MHz	10.84x7.5x3.85	
						25@1850~1950MHz		
						35@3000-3400MHz		
						8@6000MHz		
MC6A2250F104HCA	2250	104	2.5	1	14	50dBc@DC~2122MHz	13.0x8.5x5.0	
						40dBc@2378~2478MHz		
MC6A2250F100HCK	2250	100	3	1	14	50dBc@2120MHz	13x8.5x5.0	
						50dBc@2380MHz		
MC6A2250F100HCM	2250	100	3	1	14	50dBc@DC~2120MHz	13x8.2x5.0	
						50dBc@2380~2480MHz		
MP5A2265S131FCA	2265.5	131	3	0.6	14	30dBc@2120MHz	14.0x10.0x5.0	
						30dBc@2420MHz		
						40dBc@1509~1604MHz		
MC4A2275F250FCA	2275	250	1	1	18	40@DC~1900MHz	10.0x8.0x3.95	
						45@2650~3500MHz		
MC4A2300F200FCG	2300	200	1	0.5	18	30@DC~2000MHz	10.84x7.5x3.85	
						35@3000~3400MHz		
						30@4000MHz		
						35@6000MHz		
MC4A2300F400FCA	2300	400	1.3	0.5	14	40@10~1500MHz	10.8x5.9x3.95	
						25@1500~1900MHz		
						20@2700~3500MHz		
MC4A2300F400FCB	2300	400	1.2	0.7	16	40@DC~1800MHz	10.84x7.1x3.95	
						40@2900~3100MHz		
MF3A2310S10DCB	2310	10	2.8	0.3	15	40@700~800MHz	8.7x5.0x3.0	
						35@817~849MHz		
						35@1850~1915MHz		
						30@1710~1755MHz		
						5@2332.5MHz		
						25@2500~2700MHz		
						35@2700~3000MHz		

Part Number	Center Freq. (MHZ)	Bandwidth (MHZ)	I.L.(dB) max.	Ripple(dB) max.	Return Loss (dB)min.	Attenuation (dB) min.	Size (mm)	Datasheet
MC6A2312F15HCA	2312.5	15	2.8	0.5	15	50dBc@DC~894MHz	13x8.0x5.0	
						40dBc@1930~1995MHz		
						30dBc@2110~2200MHz		
						6.5dBc@2345~2360MHz		
						40dBc@2426MHz		
						50dBc@2496~2690MHz		
						50dBc@3400~3600MHz		
MC4A2350F100FCC	2350	100	2	1	10	40@0.1~2100MHz	10.7x7.8x3.90	
						40@2600~4000MHz		
						25@4000~5000MHz		
MC8A2350F100NCA	2350	100	1.8	1.1	14	40@10~2110MHz	32.5x7.9x8.44	
						45@2110~2170MHz		
						25@2200~2250MHz		
						13@2250~2280MHz		
						14@2420~2443MHz		
						30@2444~2500MHz		
						40@2500~2690MHz		
						15@2690~3000MHz		
MF3A2352S15DCA	2352.5	15	2.7	0.2	17	20@2180~2245MHz	8.0x6.7x3.0	
						20@2460~2620MHz		
						30@2620~3000MHz		
						30@1930~2180MHz		
						40@DC~1930MHz		
MC6A2352F95HCA	2352.5	95	2	0.4	16	45@DC~350MHz	13.0x6.8x5.0	
						40@2000~2005MHz		
						35@2005~2060MHz		
						25@2060~2100MHz		
						12@2100~2200MHz		
						8.5@2495~2605MHz		
						25@2605~2645MHz		
						35@2645~2690MHz		
						24@2690~2700MHz		
						15@4690~4720MHz		

Part Number	Center Freq. (MHZ)	Bandwidth (MHZ)	I.L.(dB) max.	Ripple(dB) max.	Return Loss (dB)min.	Attenuation (dB) min.	Size (mm)	Datasheet
MF3A2355S10DCA	2355	10	2	0.2	17	40@727~757MHz	8.0x6.8x3.0	
						35@862~894MHz		
						35@1930~1995MHz		
						30@2110~2155MHz		
						25@2550~2700MHz		
						35@2700~3000MHz		
MC4A2400F30FCA	2400	30	3	0.5	14	35dBc@2260MHz	10.0x7.7x3.95	
						25dBc@2600MHz		
						30dBc@3000MHz		
AF6A2430S400FCA	2430	400	3	2	12	70@1310MHz	25.4x12.0x5.0	
						60@1930MHz		
						30@2810MHz		
MC6A2592F395HCA	2592.5	395	2	0.4	16	45@DC~350MHz	13x6.3x5.0	
						40@2110~2175MHz		
						35@2175~2235MHz		
						20@2235~2295MHz		
						5@2865~2925MHz		
						15@2925~2985MHz		
						24@2985~3045MHz		
						14@4992~5380MHz		
MC6A2593F194HCA	2593	194	3	0.6	15	30dBc@DC~350MHz	13.0x7.0x5.0	
						50dBc@728~757MHz		
						50dBc@862~894MHz		
						40dBc@1930~1995MHz		
						30dBc@2110~2200MHz		
						20dBc@2345~2360MHz		
						50dBc@3400~3800MHz		
MC6A2593F582HCA	2593	582	3	0.5	15	40@50~600MHz	13.0x6.2x5.0	
						30@600~1500MHz		
						10@3010~3020MHz		
						35@3200~4500MHz		
MF3A2595F70CCB	2595	70	2	1	9.5	8.0@2704MHz	6.7x4.1x2.4	
						37@2848MHz		
						33@3136~3206MHz		

Part Number	Center Freq. (MHZ)	Bandwidth (MHZ)	I.L.(dB) max.	Ripple(dB) max.	Return Loss (dB)min.	Attenuation (dB) min.	Size (mm)	Datasheet
MF4A2600F220DCA	2600	220	1.2	-	10	25@2044~2234MHz	8.1x3.8x3.0	
						35@2956~3146MHz		
						38@3412~3602MHz		
AF6A2630S400FCA	2630	400	3	2	12	70@1310MHz	25.4x11.5x5.0	
						60@1930MHz		
						30@3000MHz		
MF3A2655S70DCA	2655	70	2.7	0.3	17	20@2400~2520MHz	8.0x5.9x3.0	
						20@2790~3000MHz		
						40@DC~2000MHz		
						25@2000~2400MHz		
MP8A2657F66HCB	2657	66	2.8	0.5	12.7	45@2500~2568MHz	50x11.5x6.2	
						50@2400~2473MHz		
						50@824~2025MHz		
						30@5248~5380MHz		
MP8A2668F44HCB	2668	44	2.8	0.5	12.7	45@2500~2568MHz	50x11.5x6.2	
						50@2400~2473MHz		
						50@824~2025MHz		
						30@4892~5380MHz		
						30@7338~8070MHz		
MF4A2675F200FCA	2675	200	2	1	9.5	30@2375MHz	11.9x5.6x3.8	
						30@2f0MHz		
						1@3f0MHz		
MF4A2725F200FCA	2725	200	3.2	1.3	14	40@2225MHz	11.9x5.6x3.8	
						40@3225MHz		
MC6A2735F80HCA	2735	80	2	0.5	14	35dBc@2130MHz	20.5x7.3x5.4	
						25dBc@2340MHz		
						30dBc@2840MHz		
AF8A2775S600FCA	2775	600	2	1	14	60dBc@2000MHz	34.5x14.5x5.2	
						50dBc@3500MHz		
MC6A2840F135HCA	2840	135	2	0.5	14	35dBc@2260MHz	20.5x6.5x5.4	
						25dBc@2600MHz		
						30dBc@3000MHz		

Part Number	Center Freq. (MHZ)	Bandwidth (MHZ)	I.L.(dB) max.	Ripple(dB) max.	Return Loss (dB)min.	Attenuation (dB) min.	Size (mm)	Datasheet
MC8A2862F85HCA	2862.5	85	3	1	14	65@2750MHz	32.0x8.9x5.35	
						65@2975MHz		
MC8A2937F85HCA	2937.5	85	3	1	14	65@2825MHz	32.0x8.7x5.35	
						65@3050MHz		
MC4A2970F4FCA	2970	4	3	1	18	40@2700~2900MHz	10.8x6.6x4.2	
						50@0~2700MHz		
						40@3150~5000MHz		
MC8A3012F85HCA	3012.5	85	3	1	14	65@2900MHz	32.0x8.5x5.35	
						65@3125MHz		
MC8A3025F250HCA	3025	250	3	1	14	65@2700MHz	32.0x8.5x5.35	
						65@3350MHz		
MC8A3085F80HCA	3085	80	3	1	14	65@2970MHz	32.0x8.4x5.35	
						65@3200MHz		
AF6A3100S400FCB	3100	400	2	1	14	40@2600MHz	25.4x12.5x5.0	
						45@3700~7800MHz		
MC6A3100F450NCA	3100	450	0.9	0.5	14	30@2250MHz	24.0x8.2x8.1	
						20@2700MHz		
						20@3600~5000MHz		
AF6A3300S400FCB	3300	400	2	1	14	40@2600MHz	25.4x12.5x5.0	
						45@3900~7800MHz		
MF3A3300F400DCF	3300	400	0.8	0.5	12	30@2600MHz	6.7x4.5x3.0	
						22@4000MHz		
MF4A3300F400DCD	3300	400	2	0.5	12	30@2600~2850MHz	6.8x4.2x4.0	
						30@3750~4000MHz		
MF4A3350F100FCD	3350	100	3.5	1.2	14	30@3010MHz	11.9x7.5x3.8	
						30@3780MHz		
MF4A3400F200FCA	3400	200	3.2	1.3	14	40@2900MHz	11.9x6.5x3.8	
						40@3900MHz		
MF3A3449F100CCB	3449.79	100.5	1.5	1	9.5	40@2487.5~2588MHz	6.7x4.6x2.5	
						45@2943.5~3044MHz		
MF3A3450F120DCA	3450	120	2	0.4	9.5	45@2944~3044MHz	8.1x3.3x3	
						20@3800~4200MHz		

Part Number	Center Freq. (MHZ)	Bandwidth (MHZ)	I.L.(dB) max.	Ripple(dB) max.	Return Loss (dB)min.	Attenuation (dB) min.	Size (mm)	Datasheet
MF3A3500F200CCC	3500	200	1.5	1	9.5	35@3020MHz	6.7x4.6x2.5	
						17@3800MHz		
MF3A3650F100CCB	3650	100	2	0.5	9.5	40@2900~3000MHz	6.7x4.2x2.5	
						35@3250~3350MHz		
						26@3950~4050MHz		
MF3A3700F200CCB	3700	200	1.45	1	9.5	30@3250MHz	6.7x4.3x2.5	
						15@4050MHz		
MC6A3750F900NCA	3750	900	1.2	0.5	14	54@1~2700MHz	25.9x7.0x8.0	
						43@2701~3000MHz		
						40@4600~6000MHz		
MP8A3950F500NCA	3950	500	1.9	1	15	45@1~3500MHz	40.0x8.5x8.8	
						15@3620MHz		
						15@4280MHz		
						50@4600~6000MHz		
MC6A3950F300FCA	3950	300	2	1	12	60dBc@3350MHz	19.5x7.1x4.42	
						60dBc@4750MHz		
MC6A3950F500NCA	3950	500	1.7	1.2	14	47@1~2700MHz	25.9x7.0x8.0	
						38@2700~3500MHz		
						25@3500~3600MHz		
						5@3600~3660MHz		
						2@3660~3680MHz		
						2@4220~4240MHz		
						5@4240~4300MHz		
						25@4300~4400MHz		
						38@4400~5590MHz		
						25@5950~7000MHz		
MC8A3950F500KCA	3950	500	1.7	1.2	14	47@1~2700MHz	27.0x7.0x6.3	
						38@2700~3500MHz		
						30@3500~3600MHz		
						10@3600~3660MHz		
						2@3660~3680MHz		
						2@4220~4240MHz		
						10@4240~4300MHz		
						30@4300~4400MHz		
						38@4400~5590MHz		
						25@5950~7000MHz		

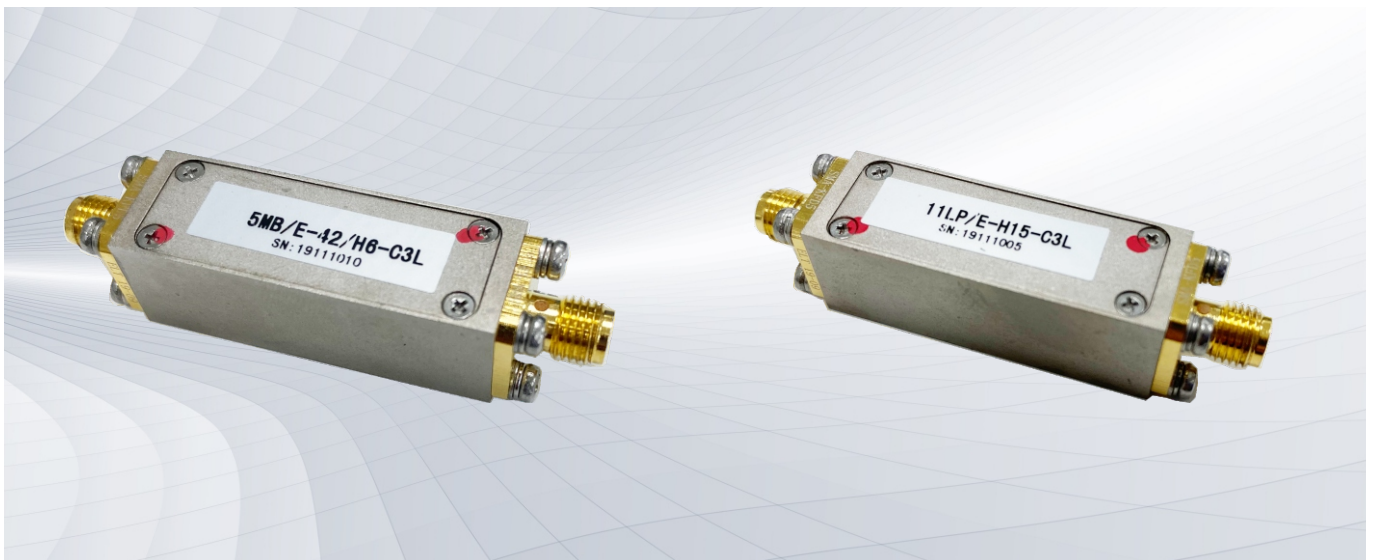
Part Number	Center Freq. (MHZ)	Bandwidth (MHZ)	I.L.(dB) max.	Ripple(dB) max.	Return Loss (dB)min.	Attenuation (dB) min.	Size (mm)	Datasheet
MC6A4700F600NCC	4700	600	1.4	1.2	14	40@1~3800MHz	25.9x8.0x6.0	
						25@5150~7200MHz		
MC8A4700F600KCA	4700	600	1.7	1.2	14	40@1~3800MHz	27.0x7.0x6.3	
						40@5150~7200MHz		
MC6A4737F525FCA	4737.5	525	4	0.7	15	40dBc@DC~4200MHz	18.0x5.8x4.2	
						40dBc@5250~7500MHz		
MF2A4950F100BCA	4950	100	1.6	-	9.54	15@4550MHz	3.4x3.0x1.7	
						9@5250~5350MHz		
						20@5490~5710MHz		
						30@5725~5850MHz		
MF2A4965F150DCA	4965	150	1.3	-	9.54	55@DC~1700MHz	6.0x4.57x3.0	
						40@2845MHz		
						40@4190MHz		
MF2A5047F305BCA	5047.5	305	2	-	9.54	50@0.1~1990MHz	3.8x3.15x2.0	
						45@2400~2484MHz		
						30@3200~3500MHz		
						15@6650~6850MHz		
						20@4435~4895MHz		
						20@5200~5820MHz		
MF4A5240F180DCB	5240	180	3.2	1.8	10	38@30~2700MHz	8.6x4.05x2.7	
						16@3453~3547MHz		
						33@3667~3883MHz		
						50@5490~5850MHz		
						20@7200~7500MHz		
MC4A5375F350FCA	5375	350	3	1	14	15@5700MHz	10.0x5.2x3.95	
						45@6000MHz		
						20@5000MHz		
						45@4700MHz		
MF4A5450F700DCA	5450	700	2	1	10	55@2400MHz	8.6x3.7x2.7	
						7@4950MHz		
						5@5950MHz		

Part Number	Center Freq. (MHZ)	Bandwidth (MHZ)	I.L.(dB) max.	Ripple(dB) max.	Return Loss (dB)min.	Attenuation (dB) min.	Size (mm)	Datasheet
MF4A5670F360DCC	5670	360	2.8	1.5	10	38@30~2700MHz	8.6x3.7x2.7	
						16@3453~3547MHz		
						33@3667~3883MHz		
						50@5150~5330MHz		
						15@7200~7500MHz		
MC6A5775F100HCA	5775	100	5	1	12	30@4000~5670MHz	20.5x5.3x5.4	
						30@5880~7000MHz		
MF2A5800F150BCD	5800	150	2.2	-	9.54	53@DC~1990MHz	3.0x2.8x1.6	
						38@3300MHz		
						40@5000MHz		
						12@5425MHz		
						8@6175MHz		
						25@6800MHz		
MC6A9325F650FCA	9325	650	4	1	15	40dBc@DC~8500MHz	18.0x4.0x4.2	
						40dBc@10150~16000MHz		
MC6A9475F1050FCA	9475	1050	4	1	15	38dBc@DC~8500MHz	18.0x4.8x4.2	
						34dBc@10450~16000MHz		

INTRODUCTION

LC filters combine inductors (L) and capacitors (C) in order to form low-pass and high-pass filters, multiplexer, band-pass and band-reject filters in radio frequency (RF) and many other applications.

We provide LC filters up to 6GHz, with relative bandwidth options from 3% to 100%, Compact size, Drop-in, SMD or coaxial package, excellent performance and high stability. Customization is also available. Our filters are widely used in many applications, such as Microwave Telecommunications, 5G Communications, IoT, Radar, ECM, Aerospace, Navigation etc.



Part Number	Center Freq. (MHz)	Typ. BW (MHz)	Typ. IL@ f0 (dB)	Min. Attenuation (dB)	Size (mm)
5MB/E-3.2/T0.2-P2	3.2	0.32 (3dB)	3.3	40@2.9&3.6MHz	40×12×9
5MB/E-4.4/T0.2-P2	4.4	0.38(3dB)	4.1	40@4&4.9MHz	40×12×9
4MB/E-10/U4-14	10	4.34(1dB)	0.4	40@4.2&16.3MHz	24.7×12.7×6.7
3MB/C-10/H1.5-14	10	1.74(0.5dB)	0.81	40@3.8&15.9MHz	24.7×12.7×6.7
5MB/C-10/T2-18	10	2.18(3dB)	2.02	40@7.8&15MHz	27.2×12.7×6.7
6MB/C-10/T6.5-22	10	6.93(3dB)	0.65	40@5.1&17.8MHz	32.4×12.7×8.7
5MB/C-10.23/T0.8-S9	10.23	0.91(3dB)	2.9	40@9.2&11.6MHz	27×12×7
4MB/C-14/U1-18	14	1.82(1dB)	1.48	40@11.4&17MHz	27.2×12.7×6.7
3MBG-15/T1.5-18	15	1.43(3dB)	1.28	40@9.8&20.6MHz	27.2×12.7×6.7
5MB/E-15.2/T2-P2	15.2	2.37(3dB)	1.95	40@13.1&17.8MHz	40×12×9
6MB/C-19/T2-18	19	2.59(3dB)	2.7	40@16.6&22.2MHz	27.2×12.7×6.7
6MB/C-19.2/T2-18	19.2	2.14(3dB)	2.94	40@17.3&21.7MHz	27.2×12.7×6.7
5MB/C-20/T2-18	20	2.36(3dB)	2.4	40@17.3&23.2MHz	12.7×27.2×6.7
6MB/C-20/T2-18	20	2.36(3dB)	2.66	40@17.8&22.6MHz	27.2×12.7×6.7
5MB/E-20.8/T3-P2	20.8	3.7(3dB)	1.66	40@17.6&24.7MHz	40×12×9
3MB/C-21.4/T0.4-A1	21.4	0.48(3dB)	6.28	40@20&23MHz	20.32×10.16×10.16
3MB/C-21.4/U4-14	21.4	5.03(1dB)	0.65	40@8&35MHz	24.7×12.7×6.7
7MB/E-21.4/U7-S10W	21.4	7.46(1dB)	0.76	40@15.94&27.4MHz	40×12×9.5
3MB/C-25/U3-14	25	4.62(1dB)	-	40@13&37.2MHz	24.7×12.7×6.7
5MB/C-27.5/H1-18	27.5	1.3(0.5dB)	3.6	40@24.8&30.6MHz	27.2×12.7×6.7
5MB/E-28/T2-14	28	2.2(3dB)	3.43	40@25.4&30.4MHz	24.7×12.7×6.7
3MB/C-30/T10-14	30	12.2(3dB)	0.59	40@11&57MHz	24.7×12.7×6.7
4MB/C-30/T6-18	30	6.13(3dB)	1.35	40@20.5&39MHz	27.2×12.7×6.7
5MB/E-30/H8-14	30	20(0.5dB)	0.3	40@8&50.3MHz	24.7×12.7×6.7
5MB/C-30/T9-18	30	9.4(3dB)	1.26	40@20.7&40.8MHz	27.2×12.7×6.7
6MB/C-30/T3-18	30	3.35(3dB)	3.1	40@26.8&33.5MHz	27.2×12.7×6.7
7MB/C-34/T10-22	34	10.7(1dB)	1.23	40@26.4&45MHz	32.4×12.7×8.7
4MB/C-36/T2.5-18	36	2.9(3dB)	3	40@32&41.5MHz	27.2×12.7×6.7
3MB/E-37.5/U1-S5	37.5	1.48(1dB)	3.25	40@32&43MHz	31.8×12.7×7.1
5MB/C-40/T2-S5	40	2.5(3dB)	4.34	40@36.5&43.6MHz	31.8×12.7×7.1
5MB/E-40/T20-22B	40	20.9(3dB)	0.55	40@26.6&56.8MHz	32.4×12.7×8.7
6MB/E-40/H20-S5	40	23.8(0.5dB)	0.57	40@21.5&64.1MHz	31.8×12.7×7.1

Part Number	Center Freq. (MHz)	Typ. BW (MHz)	Typ. IL@ f0 (dB)	Min. Attenuation (dB)	Size (mm)
5MB/C-42/T6-14	42	6.4(3dB)	2.1	40@35&51MHz	24.7×12.7×6.7
7MB/E-45/T13-22	45	12.4(3dB)	1.53	40@35.2&54.9MHz	32.4×12.7×8.7
4MB/C-46/T4-18	46	4.07(3dB)	2.86	40@39.4&52.4MHz	27.2×12.7×6.7
5MB/C-50/U10-18	50	10.8(1dB)	1.95	40@40&63.8MHz	27.2×12.7×6.7
6MB/C-50/U50-S2A	50	58.6(1dB)	0.38	40@5.77&98.21MHz	27×20×6.6
5MB/E-53/T6-22	53	7.2(3dB)	2.38	40@44.2&61MHz	32.4×12.7×8.7
6MB/E-55/U11-C3	55	11.52(1dB)	1.45	40@40.7&65.8MHz	31×13×13
5MB/E-56/T3-P2	56	3.28(3dB)	4.9	40@52.4&60.4MHz	40×12×9
5MB/C-56/T3-18	56	3.45(3dB)	4.8	40@51.8&61MHz	27.2×12.7×6.7
4MB/C-56/T7-18	56	7.27(3dB)	2.12	40@46&69MHz	27.2×12.7×6.7
5MB/E-56/H34-22	56	38.9(0.5dB)	0.56	40@22.4&96.3MHz	32.4×12.7×8.7
6MB/C-56/T10-18	56	10.71(3dB)	2.25	40@46.6&67.9MHz	27.2×12.7×6.7
4MB/E-60/T25-S2A	60	28.37(3dB)	0.7	40@33.6&91.2MHz	27×20×6.6
5MB/E-60/H20-DE-18	60	-	1.35	30@35.1&81.3MHz	27.2×12.7×6.7
6MB/C-60/T10-22	60	11(3dB)	2.2	40@50.4&72.7MHz	32.4×12.7×8.7
6MB/E-60/T20-18	60	24(3dB)	1.15	40@42.8&78.9MHz	27.2×12.7×6.7
6MB/E-60/T22-22	60	24.5(3dB)	1.1	40@39.4&80.8MHz	32.4×12.7×8.7
7MB/E-60/U20-S4G	60	22.2(1dB)	-	40@41.2&79.7MHz	26×10×6.5
3MB/C-60/T5-S5S	60	5.82(3dB)	2.55	40@45&74MHz	19.1×12.7×7.1
4MB/C-60/T4-14	60	5.2(3dB)	3	40@51.5&67.6MHz	24.7×12.7×6.7
4MB/C-60/T6-14	60	8(3dB)	1.7	40@43.7&77.6MHz	24.7×12.7×6.7
4MB/W-60/T9-S4A	60	10.5(3dB)	1.6	40@45.7&78.2MHz	25×13.2×6.5
4MB/E-60/U10-S5	60	14.7(1dB)	1.17	40@38&80.7MHz	31.8×12.7×7.1
4MB/E-60/U12-S1G	60	13.4(1dB)	1	40@37.7&80.2MHz	20×16×6.5
4MB/C-60/U12-S5	60	13.3(1dB)	1.14	40@37&90.6MHz	31.8×12.7×7.1
4MB/E-60/U20-S1G	60	21.4(1dB)	0.9	40@31.6&94.6MHz	20×16×6.5
4MB/C-60/T20-C3	60	28.5(3dB)	0.83	40@34.2&95.2MHz	31×13×13
5MB/C-60/T1.6-18	60	2.13(3dB)	8.14	40@56.7&63.4MHz	27.2×12.7×6.7
5MB/C-60/T2.8-18	60	2.79(3dB)	6.21	40@56.3&64.6MHz	27.2×12.7×6.7
5MB/C-60/T6-18	60	6.39(3dB)	3.16	40@52.6&68.8MHz	27.2×12.7×6.7
5MB/E-60/T8-22	60	8.7(3dB)	3.1	40@52.4&68.1MHz	32.4×12.7×8.7
5MB/C-60/U8-18	60	8(1dB)	2.2	40@48.7&72.1MHz	27.2×12.7×6.7

Part Number	Center Freq. (MHz)	Typ. BW (MHz)	Typ. IL@ f0 (dB)	Min. Attenuation (dB)	Size (mm)
5MB/C-60/T10-18	60	10.3(3dB)	1.98	40@49&75.8MHz	27.2×12.7×6.7
5MB/C-60/U12-S5	60	12.8(1dB)	1.51	40@44.4&77.2MHz	31.8×12.7×7.1
5MB/C-60/H20-S5	60	23.5(0.5dB)	0.79	40@36.9&99.4MHz	31.8×12.7×7.1
5MB/E-60/H23-DE-S5L	60	24.7(0.5dB)	1.2	40@27.6&93.5MHz	38.1×12.7×7.1
5MB/E-60/H30-DE-22	60	36(0.5dB)	0.85	40@18.8&104.8MHz	32.4×12.7×8.7
6MB/C-60/U10-C3L	60	12.2(1dB)	1.9	40@47.4&74.9MHz	38×13×13
6MB/C-60/H16-S5	60	19.2(3dB)	0.87	40@28.8&97MHz	31.8×12.7×7.1
6MB/E-60/U20-14	60	25(1dB)	0.89	40@40.5&79.8MHz	24.7×12.7×6.7
6MB/E-60/U20-DE-S5A	60	25(1dB)	1.71	40@38.2&79.7MHz	31.8×12.7×5.7
7MB/E-60/T30-C3L	60	33.8(3dB)	0.91	40@36.7&85.4MHz	38×13×13
5MB/E-61.38/T21-S3NA	61.38	21.5(3dB)	1.09	40@42.5&81.2MHz	30×12×7
5MB/E-64/H34-22	64	38.1(0.5dB)	0.61	30@29.4&105.9MHz	32.4×12.7×8.7
7MB/E-64/U20-S10W	64	20.7(1dB)	2	35@48.4&79.6MHz	40×12×9.5
8MB/E-64/U17-C3L	64	19.4(1dB)	-	40@46.65&81.35MHz	38×13×13
7MB/E-66/U16-S4G	66	17.14(1dB)	2.23	40@50.1&83.1MHz	26×10×6.5
6MB/C-66.5/T9-18	66.5	10.8(3dB)	3.4	40@57.5&77MHz	27.2×12.7×6.7
5MB/E-67/T9-22	67	7.28(1.5dB)	2.8	40@57.1&77MHz	32.4×12.7×8.7
3MB/C-69/H10-14	69	12.1(0.5dB)	1.41	40@29&104.5MHz	24.7×12.7×6.7
6MB/C-69.5/U2.7-C3	69.5	3(1dB)	6.3	40@64.5&74.7MHz	31×13×13
6MB/C-69.5/U12-22	69.5	12.8(1dB)	2.1	40@56.8&87.5MHz	32.4×12.7×8.7
5MB/E-70/T15-S5L	70	17.1(3dB)	1.95	40@51.8&88MHz	38.1×12.7×7.1
5MB/E-70/U20-22	70	22.3(1dB)	1.15	40@50.6&94.6MHz	32.4×12.7×8.7
5MB/E-70/T27-18	70	26.4(3dB)	1.22	40@41.5&97.9MHz	27.2×12.7×6.7
6MB/E-70/U10-S5	70	11.41(1dB)	1.8	30@59&81MHz	31.8×12.7×7.1
6MB/C-70/U20-22	70	22.6(1dB)	1.33	40@48.7&97.9MHz	32.4×12.7×8.7
6MB/E-70/U30-S9	70	33.7(1dB)	0.92	40@43.7&110MHz	27×12×7
7MB/E-70/U20-C3L	70	22.5(1dB)	1.5	40@51.5&87.9MHz	38×13×13
7MB/E-70/U20-S5L	70	23.5(1dB)	1.3	40@48&92MHz	38.1×12.7×7.1
4MB/E-70/T14-14	70	14.7(3dB)	1.5	40@47.8&87.3MHz	24.7×12.7×6.7
4MB/C-70/H20-S9	70	24.8(0.5dB)	0.8	40@27&112MHz	27×12×7
4MB/C-70/T20-14	70	23.5(3dB)	0.96	40@34.5&102MHz	24.7×12.7×6.7
4MB/E-70/U20-14	70	21.3(1dB)	1.2	40@37.5&102.5MHz	24.7×12.7×6.7

Part Number	Center Freq. (MHz)	Typ. BW (MHz)	Typ. IL@ f0 (dB)	Min. Attenuation (dB)	Size (mm)
5MB/C-70/U4-22	70	4.43(1dB)	4.15	40@62.3&78.2MHz	32.4×12.7×8.7
5MB/C-70/U5-22	70	5.87(1dB)	3.51	40@60.5&80.3MHz	32.4×12.7×8.7
5MB/E-70/T6-S5L	70	6.57(3dB)	3.7	40@61.7&78MHz	38.1×12.7×7.1
5MB/E-70/T10-S5L	70	12.1(3dB)	2.27	40@57.3&83MHz	38.1×12.7×7.1
5MB/C-70/T12-14	70	12.8(3dB)	2.57	40@56.9&88.9MHz	24.7×12.7×6.7
5MB/C-70/T15-S5A	70	15.3(3dB)	1.9	40@53.6&86.8MHz	31.8×12.7×5.7
5MB/E-70/T20-S5L	70	21.3(3dB)	1.57	40@48.4&93.1MHz	38.1×12.7×7.1
5MB/E-70/T24-S5L	70	25.8(3dB)	1.17	40@45.2&97MHz	38.1×12.7×7.1
5SBP/E-70/T37-2	70	39.8(3dB)	1.09	40@35.2&108.3MHz	25.4×12.7×6.7
5MB/C-70/U50-22A	70	67(1dB)	0.59	40@13.1&142.2MHz	32.4×12.7×6.7
6SBP/E-70/T5-2A	70	5.05(3dB)	6	40@64.6&76.3MHz	25.4×12.7×6
6MB/C-70/U5-C3L	70	5.93(1dB)	3.99	40@62.7&79.6MHz	38×13×13
6MB/C-70/T8-S2A	70	9.1(3dB)	3.85	40@62&79.7MHz	27×20×6.6
6MB/E-70/T8-S5A	70	8.5(3dB)	3.8	40@61.9&79.3MHz	31.8×12.7×5.7
6MB/E-70/U10-C3L	70	11.1(1dB)	1.92	40@59.7&81.7MHz	38×13×13
6MB/C-70/U11-18	70	12.1(1dB)	2.4	40@57.3&86.9MHz	27.2×12.7×6.7
6MB/C-70/U20-18	70	23.5(1dB)	1.33	40@48.6&100.1MHz	27.2×12.7×6.7
6MB/E-70/U20-S5	70	26.4(1dB)	1	40@49.6&93.4MHz	31.8×12.7×7.1
6MB/C-70/T24-S5	70	26.8(3dB)	1.37	40@47.8&96.5MHz	31.8×12.7×7.1
8MB/E-70/U22-S5L	70	22.8(1dB)	1.69	40@52.1&91MHz	38.1×12.7×7.1
8MB/E-70/T30-C3L	70	33.5(3dB)	1.25	40@47&93.3MHz	38×13×13
3MB/C-72.5/U3-14	72.5	4.41(1dB)	-	40@60&99MHz	24.7×12.7×6.7
6MB/C-74.9/T10-22	74.9	10.8(3dB)	3.35	40@64.8&86.9MHz	32.4×12.7×8.7
3MB/C-75/T4-14	75	3.86(3dB)	4.48	40@67&86MHz	24.7×12.7×6.7
5SBP/C-75/H20-3	75	20.7(0.5dB)	1.25	40@47.8&110MHz	31.8×12.7×6.7
4MB/C-75/T6-14	75	5.6(3dB)	3.6	40@62.5&86.5MHz	24.7×12.7×6.7
5MB/E-80/T20-14	80	21.1(3dB)	1.45	40@64.2&99.1MHz	24.7×12.7×6.7
6MB/C-80/T8-18	80	8.81(3dB)	4.87	40@71.1&89.3MHz	27.2×12.7×6.7
4MB/C-80/T5-S5	80	-	4.2	40@70&91MHz	31.8×12.7×7.1
4MB/C-80/U12-14	80	14.8(1dB)	1.6	40@52.2&105.2MHz	24.7×12.7×6.7
5MB/C-80/T8-18	80	8.35(3dB)	4.15	40@69.5&91MHz	27.2×12.7×6.7
5MB/C-82.5/T6-14	82.5	6.65(3dB)	5	40@74.4&93.3MHz	24.7×12.7×6.7

Part Number	Center Freq. (MHz)	Typ. BW (MHz)	Typ. IL@ f0 (dB)	Min. Attenuation (dB)	Size (mm)
5MB/C-90/T5-S5L	90	5.3(3dB)	6.7	40@82.8&99.3MHz	38.1×12.7×7.1
5MB/C-100/T4-14	100	4.7(3dB)	8.1	40@93.5&107.5MHz	24.7×12.7×6.7
4MB/C-100/T8-18	100	10.3(3dB)	4.1	40@86.5&116MHz	27.2×12.7×6.7
5MB/C-100/T8-18	100	8.5(3dB)	5.7	40@90&110MHz	27.2×12.7×6.7
6MB/C-100/T10-18	100	15.2(3dB)	3.2	40@82.5&118MHz	27.2×12.7×6.7
5MB/E-102/U144-22A	102	166(1dB)	0.35	40@21.1&212.7MHz	32.4×12.7×6.7
5MB/C-108/U8-18	108	9.3(1dB)	4	40@92.5&124MHz	27.2×12.7×6.7
5MB/C-110/T8-S9	110	9.1(3dB)	4.8	40@99&124.5MHz	27×12×7
6MB/C-110/U180-S4G	110	219.5(1dB)	0.27	40@7.4&398MHz	26×10×6.5
3MB/C-112/U10-S4G	112	-	1.53	40@65&154MHz	26×10×6.5
6MB/C-115/T7-22	115	8.9(3dB)	7.4	40@107&125MHz	32.4×12.7×8.7
5MB/E-118.52/T41-S3NA	118.52	41.5 (3dB)	1.3	40@81&154.3MHz	30×12×7
3MB/C-120/T12-14	120	12.9(3dB)	2.35	40@92&153.5MHz	24.7×12.7×6.7
5MB/C-120/T5-18	120	5.7(3dB)	7	40@111&131MHz	27.2×12.7×6.7
5MB/C-120/U30-S1G	120	33.8(1dB)	1.4	40@85.4&175.6MHz	20×16×6.5
6MB/C-120/T4-22	120	4.13(3dB)	11.2	50@114.5&126.2MHz	32.4×12.7×8.7
6MB/C-120/T20-18	120	21.5(3dB)	3.05	40@100&144MHz	27.2×12.7×6.7
4MB/C-120/T8-S5	120	-	4.84	40@107&135MHz	31.8×12.7×7.1
4MB/C-120/T10-S2A	120	11.6(3dB)	3.4	40@101&140MHz	27×20×6.6
4MB/E-120/U45-S5	120	58.3(1dB)	0.75	40@53.3&196MHz	31.8×12.7×7.1
5MB/C-120/T30-S9	120	31.67(3dB)	1.7	40@89.4&158.2MHz	27×12×7
4MB/C-121.5/T9-14	121.5	11.2(3dB)	3.6	40@105&141.5MHz	24.7×12.7×6.7
5MB/E-121.795/T51-S3NA	121.795	51.3(3dB)	1.2	40@76.2&169.4MHz	30×12×7
5MB/C-122/H30-18	122	35.4(0.5dB)	1.39	40@77.4&175.5MHz	27.2×12.7×6.7
5MB/E-124/U36-S5L	124	39.9(1dB)	1.32	40@93&161MHz	38.1×12.7×7.1
6MB/C-125/T7-22	125	9.2(3dB)	7.2	40@115&134MHz	32.4×12.7×8.7
5MB/E-125.42/T51-S3NA	125.42	51.3(3dB)	1.27	40@79.3&171MHz	30×12×7
3MB/C-129/U25-S4G	129	-	-	40@49&210.5MHz	25×10×6.5
4MB/C-130/H10-18	130	12.2(0.5dB)	2.18	40@104&163MHz	27.2×12.7×6.7
4MB/C-130/U30-14	130	32.6(1dB)	2	40@75&179MHz	24.7×12.7×6.7
5MB/E-130.25/U15-22	130.25	18.3(1dB)	2.3	40@105&155MHz	32.4×12.7×8.7
5MB/E-132/U24-S10W	132	25.6(1dB)	1.65	40@107.5&162.6MHz	40×12×9.5

Part Number	Center Freq. (MHz)	Typ. BW (MHz)	Typ. IL@ f0 (dB)	Min. Attenuation (dB)	Size (mm)
6MB/C-135/T7-22	135	9.1(3dB)	7.35	40@125.7&144.3MHz	32.4×12.7×8.7
3MB/C-138/H10-14	138	12.7(0.5dB)	1.88	40@94&178.5MHz	24.7×12.7×6.7
4MB/C-138/U20-S5	138	21.8(1dB)	1.89	40@93&178MHz	31.8×12.7×7.1
6MB/E-140/U13-C3L	140	13.8(1dB)	3.6	40@123.8&157.6MHz	38×13×13
7MB/E-140/U32-C3L	140	33.8(1dB)	1.72	40@110&172MHz	38×13×13
3MB/C-140/H20-14	140	24.7(0.5dB)	1.07	40@65&212.5MHz	24.7×12.7×6.7
4MB/C-140/U30-18	140	33.8(1dB)	1.22	40@77&194MHz	27.2×12.7×6.7
4MB/C-140/T36-18	140	36.5(1dB)	1	40@77&196MHz	27.2×12.7×6.7
5MB/C-140/T8-18	140	8.7(3dB)	-	40@127&153MHz	27.2×12.7×6.7
5MB/E-140/U36-S4G	140	40.3(1dB)	1.55	40@92.7&188.5MHz	26×10×6.5
6MB/C-140/H7-C3	140	19.1(1dB)	2.7	40@118.7&166.3MHz	31×13×13
6MB/C-140/U10-18	140	11.9(1dB)	4.75	40@126.1&155.8MHz	27.2×12.7×6.7
6MB/C-140/U70-S5A	140	72.4(1dB)	-	40@81.7&222.7MHz	31.8×12.7×5.7
7MB/E-140/U5-S5L	140	7.07(1dB)	6.55	40@129.5&151MHz	38.1×12.7×7.1
7MB/E-140/U20-S5L	140	22.7(1dB)	2.5	40@119.8&162.2MHz	38.1×12.7×7.1
7MB/E-140/U26-C3L	140	28.2(1dB)	2.15	40@113.8&165.6MHz	38×13×13
3MB/C-140/U8-14	140	8.65(1dB)	5	40@116&177.5MHz	24.7×12.7×6.7
4MB/C-140/U8-18	140	8.9(1dB)	3.5	40@121&162MHz	27.2×12.7×6.7
4MB/C-140/T10-18	140	10.7(3dB)	4.3	40@123&161MHz	27.2×12.7×6.7
5MB/E-143.25/U5-18	143.25	14.46(1dB)	2.9	40@121&165MHz	27.2×12.7×6.7
5MB/E-148/U24-S10W	148	25.6(1dB)	1.7	40@122&179MHz	40×12×9.5
3MB/C-150/U30-S4G	150	-	-	40@61&248.5MHz	26×10×6.5
6MB/C-150/T15-18	150	15(3dB)	4.4	40@135&167MHz	27.2×12.7×6.7
3MB/C-150/T9-S1G	150	9.2(3dB)	3.51	40@125&172MHz	20×16×6.5
5SBP/E-150/U50-2	150	54.2(1dB)	1.02	40@92.2&212MHz	25.4×12.7×6.7
5MB/C-150/U100-18	150	109.1(1dB)	0.66	40@59.5&287.2MHz	27.2×12.7×6.7
5MB/E-150/U100-S5	150	109.2(1dB)	0.48	40@53.5&246.8MHz	31.8×12.7×7.1
5MB/C-160/T16-14	160	18.3(3dB)	3.1	40@139&184MHz	24.7×12.7×6.7
4MB/C-160/T15-S5A	160	19.5(3dB)	2.5	40@127&188MHz	31.8×12.7×5.7
6MB/C-160/U22-18	160	24(1dB)	2.55	40@134.6&192.6MHz	27.2×12.7×6.7
4MB/C-177.5/U15-S4G	177.5	20.4(1dB)	2.05	40@142&214MHz	26×10×6.5
7MB/E-178/T16-C3L	178	21.8(3dB)	3.31	40@161.2&195.2MHz	38×13×13

Part Number	Center Freq. (MHz)	Typ. BW (MHz)	Typ. IL@ f0 (dB)	Min. Attenuation (dB)	Size (mm)
6MB/E-180/U80-S5LA	180	87.2(1dB)	0.85	40@108&252MHz	38.1×12.7×5.7
6SBP/E-180/U100-2	180	107.2(1dB)	0.71	40@98.4&275.1MHz	25.4×12.7×6.7
6MB/C-183/T10-18	183	11.7(3dB)	5.75	40@169.8&197.3MHz	27.2×12.7×6.7
6MB/E-185/U45-S5	185	46.2(1dB)	1.43	40@142&232MHz	31.8×12.7×7.1
3MB/C-200/T6-14	200	19.1(3dB)	2.28	40@156&241MHz	24.7×12.7×6.7
3MB/C-200/U15-S4G	200	-	1.86	40@147&247MHz	26×10×6.5
3MB/C-200/T18-S5S	200	20.1(3dB)	2.12	40@147&240MHz	19.1×12.7×7.1
4MB/C-200/T17-S5A	200	-	3.08	40@171&256MHz	31.8×12.7×5.7
4MB/C-200/T25-S5	200	34.4(3dB)	2.08	40@146&249MHz	31.8×12.7×7.1
5MB/C-200/U15-S2A	200	17(1dB)	2.5	40@171&233MHz	27×20×6.6
4MB/C-200/T20-S4G	200	19.5(1dB)	2.3	40@165&236MHz	26×10×6.5
6MB/C-200/T10-S5	200	18.2(3dB)	3.72	40@181.9&218.7MHz	31.8×12.7×7.1
6MB/C-200/T20-18	200	22.3(3dB)	3.73	40@175.6&225.7MHz	27.2×12.7×6.7
6MB/C-200/T20-S5	200	19.2(3dB)	3.86	40@181.3&220.9MHz	31.8×12.7×7.1
6MB/C-200/U56-18	200	60.2(1dB)	1.34	40@139.9&268.8MHz	27.2×12.7×6.7
6MB/C-210/T40-S5	210	41.9(3dB)	2.25	40@172.2&252.8MHz	31.8×12.7×7.1
7MB/E-210/U30-C3L	210	33.2(1dB)	1.8	40@179.4&242.4MHz	38×13×13
5SBP/C-220/U20-2	220	28.4(1dB)	2.6	40@182&260MHz	25.4×12.7×6.7
4MB/C-225/U50-S4G	225	63(1dB)	1	40@141&339MHz	26×10×6.5
6MB/C-233/U246-S5	233	257.5(1dB)	0.38	40@45.9&480.4MHz	31.8×12.7×7.1
6MB/C-235/U10-18	235	11.6(1dB)	5	40@218.5&254.2MHz	27.2×12.7×6.7
7MB/E-237/U34-S10W	237	37.8(1dB)	-	40@197&272MHz	40×12×9.5
4MB/C-240/T20-S5A	240	24.6(3dB)	2.45	40@204&282MHz	31.8×12.7×5.7
4MB/C-240/T30-18	240	-	1.97	40@187&288MHz	27.2×12.7×6.7
6MB/E-248/U36-S5L	248	43(1dB)	-	30@210&290MHz	38.1×12.7×7.1
4MB/C-250/T25-14	250	27(3dB)	2	40@214&303MHz	24.7×12.7×6.7
6SBP/E-260/U110-2	260	117.9(1dB)	0.73	40@163.7&357MHz	25.4×12.7×6.7
7MB/E-261/U34-S10W	261	37(1dB)	-	40@219.9&296.1MHz	40×12×9.5
7MB/C-275/U100-S3L	275	107.4(1dB)	0.87	40@196&405MHz	35×15×9
7MB/C-275/U350-S3L	275	352.4(1dB)	0.35	40@55.6&609.3MHz	35×15×9
4MB/C-285/T10-18	285	-	3.9	40@258&315MHz	27.2×12.7×6.7
7MB/E-285/U34-S10W	285	37.9(1dB)	-	40@243.8&321.6MHz	40×12×9.5

Part Number	Center Freq. (MHz)	Typ. BW (MHz)	Typ. IL@ f0 (dB)	Min. Attenuation (dB)	Size (mm)
4MB/C-300/U30-S1G	300	35.8(1dB)	1.63	40@233&363MHz	20×16×6.5
6MB/C-300/T40-22	300	43.6(3dB)	2.5	40@260&348MHz	32.4×12.7×8.7
6MB/E-300/U110-S5A	300	121(1dB)	0.81	40@216.9&383MHz	31.8×12.7×5.7
5MB/E-300/U10-C3	300	18.4(1dB)	3.15	40@269&322MHz	31×13×13
5MB/C-300/T12-14	300	13.2(3dB)	7.1	40@280&323MHz	24.7×12.7×6.7
6MB/C-300/U400-18	300	410(1dB)	0.25	40@40.7&652.1MHz	27.2×12.7×6.7
7MB/C-300/U100-S3L	300	102.1(1dB)	0.88	40@223&413MHz	35×15×9
7MB/E-300/H170-S5L	300	182(0.5dB)	-	40@152.3&448.3MHz	38.1×12.7×7.1
7MB/E-300/U200-S3L	300	212.4(1dB)	0.58	40@137&456MHz	35×15×9
7MB/E-309/U34-S10W	309	38.1(1dB)	-	40@266.7&346.8MHz	40×12×9.5
5MB/E-312.5/U175-S10WB	312.5	190.6(1dB)	0.67	40@178&495MHz	40×12×9.5
5MB/E-312.5/U215-22A	312.5	224.2(1dB)	0.3	40@173&497.5MHz	32.4×12.7×6.7
4MB/C-330/T40-S5	330	54.4(3dB)	1.39	40@250&423MHz	31.8×12.7×7.1
7MB/E-330/U20-S5L	330	26.9(1dB)	2.45	40@303&358.2MHz	38.1×12.7×7.1
5MB/C-350/U120-18	350	127(1dB)	0.8	40@212&506MHz	27.2×12.7×6.7
6MB/E-350/U40-DE-S10W	350	53(1dB)	3.14	40@295.8&392MHz	40×12×9.5
7MB/C-350/U30-22	350	38.1(1dB)	2.68	40@312&393MHz	32.4×12.7×8.7
7MB/E-356/U34-S10W	356	43.2(1dB)	-	40@311&399MHz	40×12×9.5
6MB/C-360/T15-18	360	14.8(3dB)	6	40@341.1&380.8MHz	27.2×12.7×6.7
7MB/E-375/U200-S4GA	375	204.6(1dB)	0.73	40@225&525MHz	26×10×5
7MB/E-380/U34-S10W	380	41.5(1dB)	-	40@334&419MHz	40×12×9.5
5MB/C-390/T20-18	390	20.5(3dB)	4.7	40@367&424MHz	27.2×12.7×6.7
5MB/C-400/U120-S2A	400	143(1dB)	0.5	40@248&571MHz	27×20×6.6
6MB/C-400/U70-S2A	400	82.7(1dB)	1.26	40@328.2&496.7MHz	27×20×6.6
6MB/C-400/U85-18	400	96.1(1dB)	1.2	40@311.5&520.7MHz	27.2×12.7×6.7
6MB/C-400/U112-18	400	125(1dB)	0.98	40@294.5&558.8MHz	27.2×12.7×6.7
6MB/C-400/U150-18	400	164.8(1dB)	0.78	40@257.7&567.7MHz	27.2×12.7×6.7
4MB/C-400/T45-S5	400	60.3(3dB)	1.33	40@310&482MHz	31.8×12.7×7.1
4MB/C-400/U50-S4A	400	53.8(1dB)	-	40@288&496MHz	25×13.2×6.5
6MB/C-400/U20-S2A	400	26.7(1dB)	3.5	40@365&436.4MHz	27×20×6.6
6MB/C-400/U30-18	400	34.5(1dB)	3.05	40@359.1&444.2MHz	27.2×12.7×6.7
6MB/E-400/H80-DE-S10	400	109(0.5dB)	1.62	40@302&502MHz	40×9.5×9.5

Part Number	Center Freq. (MHz)	Typ. BW (MHz)	Typ. IL@ f0 (dB)	Min. Attenuation (dB)	Size (mm)
7MB/E-404/U34-S10W	404	42.3(1dB)	-	40@358.5&443.6MHz	40×12×9.5
6MB/C-410/U20-18	410	23(1dB)	3.4	40@379&444MHz	27.2×12.7×6.7
7MB/E-428/U34-S10W	428	39.2(1dB)	-	40@384&468MHz	40×12×9.5
6MB/E-440/T70-S2A	440	82(3dB)	1.5	40@377&505MHz	27×20×6.6
7MB/E-452/U34-S10W	452	42(1dB)	-	40@406&496MHz	40×12×9.5
7MB/E-476/U34-S10W	476	39.5(1dB)	-	40@430&516MHz	40×12×9.5
5MB/C-480/U30-18	480	40.5(1dB)	2.4	40@422&538MHz	27.2×12.7×6.7
5MB/C-480/T35-S5A	480	-	2.13	40@424&542MHz	31.8×12.7×5.7
6MB/E-480/U60-S9	480	75.5(1dB)	1.38	40@417&548MHz	27×12×7
5MB/C-500/T30-S5	500	32.1(3dB)	3.2	40@459&542MHz	31.8×12.7×7.1
5MB/C-500/T40-S4G	500	43.5(3dB)	2.9	40@452&550MHz	26×10×6.5
6MB/C-500/U250-18	500	258(1dB)	0.87	40@280.4&749.7MHz	27.2×12.7×6.7
4MB/C-500/T25-14	500	-	4.5	40@456&544MHz	24.7×12.7×6.7
5MB/C-500/T50-22	500	57.6(3dB)	1.71	40@439&569MHz	32.4×12.7×8.7
7MB/C-500/U20-S5L	500	27.3(1dB)	4.12	40@465.7&533.5MHz	38.1×12.7×7.1
7MB/E-500/U34-S10W	500	39.2(1dB)	-	40@455.9&539.5MHz	40×12×9.5
7MB/C-507.5/U45-22	507.5	48.4(1dB)	2.62	40@459&567.5MHz	32.4×12.7×8.7
6MB/E-510/U250-S5A	510	298(1dB)	0.6	40@304.7&719.5MHz	31.8×12.7×5.7
7MB/C-522.5/U45-22	522.5	48.3(1dB)	2.8	40@474&583MHz	32.4×12.7×8.7
4MB/C-540/U60-S4A	540	63.97(1dB)	-	40@461&663MHz	25×13.2×6.5
6MB/C-540/H45-18	540	52.2(0.5dB)	1.73	40@470.8&618.3MHz	27.2×12.7×6.7
4MB/C-550/U300-S4G	550	-	-	40@420&583MHz	26×10×6.5
6MB/E-550/U300-S4G	550	323.9(1dB)	0.47	40@253&786MHz	26×10×6.5
7MB/C-560/T50-22	560	51.2(3dB)	2.72	40@513&618MHz	32.4×12.7×8.7
5MB/E-573/U18-18	573	25.43(1dB)	3.15	40@531.9&613.2MHz	27.2×12.7×6.7
4MB/C-580/T60-S1G	580	70(3dB)	1.46	40@491&693MHz	20×16×6.5
6MB/E-596/U60-S9	596	74.9(1dB)	1.43	40@532.4&665.3MHz	27×12×7
6MB/C-600/U30-18	600	33.9(1dB)	2.8	40@555.7&659.6MHz	27.2×12.7×6.7
4MB/C-600/U40-S1G	600	47(1dB)	1.8	40@510&682MHz	20×16×6.5
4MB/C-635/U55-14	635	65(1dB)	1.6	40@539&755MHz	24.7×12.7×6.7
6MB/E-665/U570-S9	665	647.3(1dB)	0.46	35@240&1140MHz	27×12×7
5MB/C-680/H20-S5A	680	25.1(0.5dB)	2.8	40@626&737MHz	31.8×12.7×5.7

Part Number	Center Freq. (MHz)	Typ. BW (MHz)	Typ. IL@ f0 (dB)	Min. Attenuation (dB)	Size (mm)
6MB/C-700/T50-S5	700	60.6(3dB)	2.67	40@646&781MHz	31.8×12.7×7.1
6MB/C-700/U50-S4GA	700	55.6(1dB)	2.96	40@635&778MHz	26×10×5
3MB/C-720/T150-14	720	165.4(3dB)	0.69	40@324&1085MHz	24.7×12.7×6.7
7MB/E-720/U300-S10WBA	720	326.7(1dB)	0.93	40@489&980MHz	40×12×8
7MB/E-720/U405-S5L	720	435.6(1dB)	0.48	40@330&1053MHz	38.1×12.7×7.1
6MB/C-720/U40-18	720	46.4(1dB)	2.5	40@663&801MHz	27.2×12.7×6.7
6MB/E-720/U45-S5	720	55(1dB)	2.68	40@656&777MHz	31.8×12.7×7.1
6MB/C-720/U610-22A	720	865(1dB)	0.55	40@120&1345MHz	32.4×12.7×6.7
8MB/C-722.5/U45-S5L	722.5	59(1dB)	3	40@663&784MHz	38.1×12.7×7.1
6MB/E-741/U118-S9	741	143.5(1dB)	1.05	35@632&865MHz	27×12×7
5MB/C-750/U300-C3	750	325.9(1dB)	0.45	40@407&1145MHz	31×13×13
8MB/E-750/U400-S3L	750	420(1dB)	0.86	40@464&1040MHz	35×15×9
7MB/E-750/U400-S4GA	750	422.6(1dB)	0.61	40@450&1050MHz	26×10×5
6MB/C-780/T60-18	780	66.5(3dB)	2.61	40@719&848MHz	27.2×12.7×6.7
4MB/C-800/T40-18	800	-	2.03	40@712.5&893.5MHz	27.2×12.7×6.7
4MB/C-800/U40-S4G	800	59(1dB)	1.63	40@705&916MHz	26×10×6.5
5MB/E-860/U30-18	860	43(1dB)	2.8	40@792&932MHz	27.2×12.7×6.7
6MB/C-878/U40-S5	878	52(1dB)	2.9	40@817.6&947.5MHz	31.8×12.7×7.1
6MB/E-895/U110-S9	895	137.4(1dB)	1.25	35@785&1018MHz	27×12×7
4MB/C-925/U250-S4G	925	282(1dB)	0.6	40@451&1320MHz	26×10×6.5
5MB/C-1000/U50-S5	1000	55.5(1dB)	3.36	40@923&1094MHz	31.8×12.7×7.1
4MB/C-1012/U40-18	1012	42(1dB)	3	40@915&1105MHz	27.2×12.7×6.7
4MB/C-1092/U264-S4G	1092	281(1dB)	0.8	40@635&1518MHz	26×10×6.5
7MB/E-1100/H200-S5L	1100	235(0.3dB)	-	40@799&1389MHz	38.1×12.7×7.1
5MB/C-1110/T56-18	1110	52(3dB)	3.5	40@1045&1185MHz	27.2×12.7×6.7
8MB/E-1120/U500-S10WBA	1120	536(2dB)	0.92	40@767&1470MHz	40×12×8
4MB/C-1135/U250-14	1135	268.5(1dB)	0.91	40@670&1518MHz	24.7×12.7×6.7
4MB/E-1150/H300-14	1150	345(0.5dB)	0.77	40@602&1582MHz	24.7×12.7×6.7
5MB/C-1170/T130-18	1170	132(3dB)	-	40@1025&1348MHz	27.2×12.7×6.7
7MB/E-1200/U600-DE-S10WBA	1200	690.8 (1dB)	0.58	40@754&1641MHz	40×12×8
7MB/C-1200/U50-S5L	1200	55(1dB)	3.86	40@1135&1276MHz	38.1×12.7×7.1
4MB/C-1200/T100-14	1200	106.8(3dB)	1.95	40@1&1.4GHz	24.7×12.7×6.7

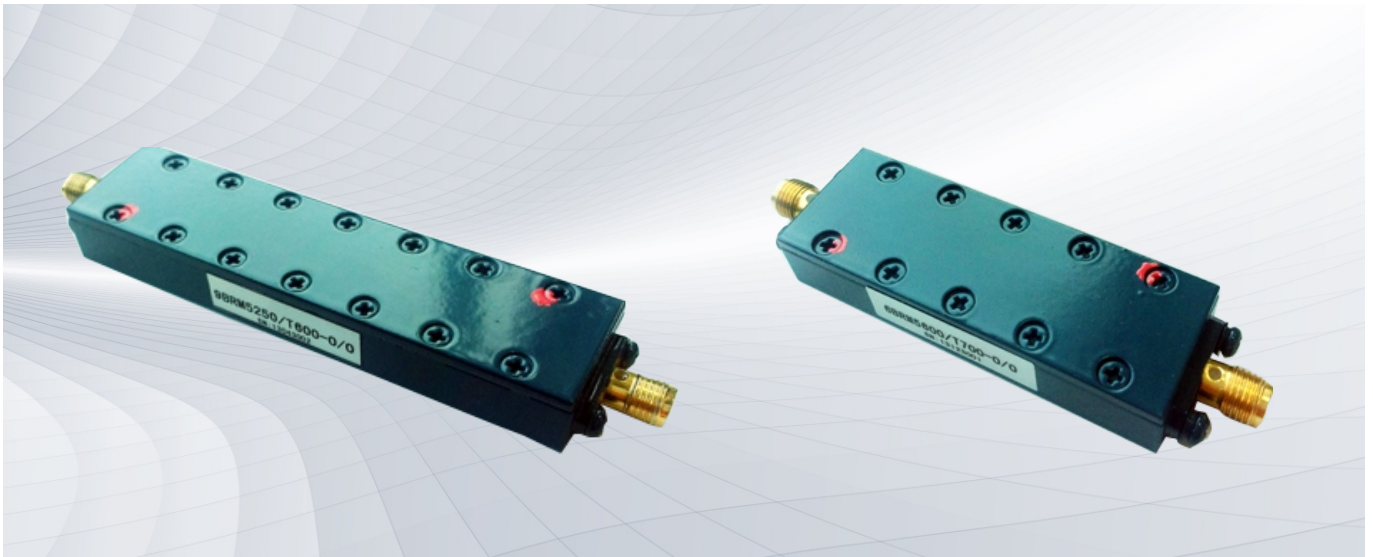
Part Number	Center Freq. (MHz)	Typ. BW (MHz)	Typ. IL@ f0 (dB)	Min. Attenuation (dB)	Size (mm)
4MB/C-1200/T120-S5A	1200	116.9(3dB)	2.04	40@1&1.4GHz	31.8×12.7×5.7
5MB/C-1200/T60-S5A	1200	93.3(3dB)	2.85	40@1.08&1.31GHz	31.8×12.7×5.7
6MB/C-1200/T500-S5	1200	596.2(3dB)	0.77	40@773&1866MHz	31.8×12.7×7.1
6MB/E-1200/T800-C3	1200	815.5(3dB)	0.41	40@609&1872MHz	31×13×13
6MB/E-1200/U800-22A	1200	1050(1dB)	0.65	40@407&2152MHz	32.4×12.7×6.7
7MB/E-1200/U200-S5L	1200	215(1dB)	0.92	33@1036&1363MHz	38.1×12.7×7.1
7MB/E-1200/U300-S10WBA	1200	327.7(1dB)	0.94	33@948&1450MHz	40×12×8
7MB/E-1200/U660-S5L	1200	710.5(1dB)	0.55	40@729&1678MHz	38.1×12.7×7.1
6MB/C-1250/U140-18	1250	157.6(1dB)	1.66	40@1.08&1.46GHz	27.2×12.7×6.7
6MB/C-1258/T50-S5	1258	62.1(3dB)	3.9	40@1.18&1.34GHz	31.8×12.7×7.1
5MB/C-1260/H240-18	1260	253.1(0.5dB)	1.19	40@1&1.75GHz	27.2×12.7×6.7
6MB/C-1285/H150-S5A	1285	172(0.5dB)	1.3	40@1.03&1.54GHz	31.8×12.7×5.7
6MB/E-1300/T220-18	1300	244.2(3dB)	1	40@1.1&1.52GHz	27.2×12.7×6.7
4MB/C-1348/U50-14	1348	60(1dB)	-	40@1.25&1.48GHz	24.7×12.7×6.7
7MB/C-1348/U170-18	1348	1.65	174.4(1dB)	40@1.18&1.55GHz	27.2×12.7×6.7
5MB/E-1350/U100-S4G	1350	111(1dB)	2.1	40@1.22&1.48GHz	26×10×6.5
6MB/C-1350/U140-18	1350	183(1dB)	1.67	40@1.15&1.56GHz	27.2×12.7×6.7
5MB/C-1360/H300-S5A	1360	320(0.5dB)	-	40@959&1855MHz	31.8×12.7×5.7
4MB/E-1410/H260-S4A	1410	315(0.5dB)	-	40@1.11&1.79GHz	25×13.2×6.5
6MB/C-1430/U70-18	1430	66.8(1dB)	3.47	40@1.35&1.52GHz	27.2×12.7×6.7
6MB/C-1440/H140-S5A	1440	161(0.5dB)	1.4	40@1.2&1.67GHz	31.8×12.7×5.7
4MB/C-1455/T200-14	1455	176(3dB)	1.8	40@1.15&1.75GHz	24.7×12.7×6.7
6MB/C-1475/U100-S2A	1475	103(1dB)	2.75	40@1.36&1.62GHz	27×20×6.6
5MB/E-1500/U500-S4GA	1500	552.8(1dB)	0.53	40@1.12&1.89GHz	26×10×5.0
6MB/C-1500/U200-18	1500	232(1dB)	1.55	40@1.27&1.77GHz	27.2×12.7×6.7
6MB/C-1550/U166-S5	1550	175(1dB)	1.7	40@1.35&1.75GHz	31.8×12.7×7.1
3MB/C-1575/U35-S9	1575	54.5(1dB)	1.93	40@1.3&1.85GHz	27×12×7
3MB/C-1600/H500-S5S	1600	619.5(0.5dB)	0.39	40@0.55&3.75GHz	19.1×12.7×7.1
4MB/C-1610/T65-14	1610	70(3dB)	3.2	40@1.5&1.75GHz	24.7×12.7×6.7
5MB/C-1750/U60-18	1750	69(1dB)	3.3	40@1.62&1.87GHz	27.2×12.7×6.7
4MB/C-1765/H40-18	1765	43(0.5dB)	3.52	40@1.6&1.9GHz	27.2×12.7×6.7
5MB/C-1790/T330-S2A	1790	0.9	355(3dB)	40@1.38&2.2GHz	27×20×6.6

Part Number	Center Freq. (MHz)	Typ. BW (MHz)	Typ. IL@ f0 (dB)	Min. Attenuation (dB)	Size (mm)
6MB/E-1800/U250-S5A	1800	296(1dB)	1.24	40@1.5&2.09GHz	31.8×12.7×5.7
5MB/C-1840/T170-S5A	1840	180(3dB)	1.8	40@1.59&2.11GHz	31.8×12.7×5.7
4MB/C-1860/T96-S2A	1860	107(3dB)	2.5	40@1.65&2.05GHz	27×20×6.6
6MB/C-1860/H70-S2A	1860	100(0.5dB)	2.52	40@1.72&2.02GHz	27×20×6.6
6MB/C-1883/U166-S5	1883	168(1dB)	2.45	40@1.7&2.11GHz	31.8×12.7×7.1
4MB/C-1935/U370-14	1935	430(1dB)	0.9	40@1.35&2.7GHz	24.7×12.7×6.7
3MB/C-2070/T250-14	2070	236.5(3dB)	-	40@1.3&2.5GHz	24.7×12.7×6.7
7MB/C-2072.5/H120-S10W	2072.5	160.8(0.5dB)	2.3	40@1.88&2.28GHz	40×12×9.5
6MB/E-2100/U600-C3L	2100	652.8(1dB)	0.57	40@1533&2681MHz	38×13×13
6MB/C-2217/U166-S5	2217	167.5(1dB)	2.5	40@2.03&2.44GHz	31.8×12.7×7.1
5MB/C-2280/T100-14	2280	128(3dB)	3.6	40@2.14&2.45GHz	24.7×12.7×6.7
4MB/C-2300/H300-14	2300	363(0.5dB)	0.7	40@1.55&2.9GHz	24.7×12.7×6.7
5MB/E-2500/U1000-S4G	2500	1088.6(1dB)	0.65	40@1.21&3.42GHz	26×10×6.5
4MB/C-2550/U180-S5	2550	234(3dB)	1.75	40@2.3&2.85GHz	31.8×12.7×7.1
5MB/C-3400/U600-S5	3400	740(1dB)	0.8	40@2.6&4.5GHz	31.8×12.7×7.1
5MB/C-3600/T300-S5A	3600	296(1dB)	1.14	40@3.2&4.1GHz	31.8×12.7×5.7
3MB/C-3700/H600-14	3700	-	-	40@1.6&5.7GHz	24.7×12.7×6.7
4MB/C-4100/T300-S2A	4100	351(3dB)	1.6	40@3.7&4.6GHz	27×20×6.6

INTRODUCTION

RF cavity filter is one of four most common filters in today. It is a type of resonant filter. The most common method is to generate metal resonator through metal shell with thick metal coil. Multiple metal resonators are utilized to form a cavity filter.

Cavity filter designs are available in the frequency range of 300 MHz to 40 GHz and with bandwidth options from less than 1% to 70%. Cavity filters offer very low insertion loss, excellent rejection out of bands and stable performance over temperature. Customization is also available. Cavity filters are widely used in many applications, such as Microwave Telecommunications, 5G Communications, IoT, Radar, ECM, Aerospace, Navigation etc.



Part Number	Center Freq. (MHz)	Typ. BW (MHz)	Typ. IL@ f0 (dB)	Min. Rejection (dBc)	Size (mm)
4HL10-386.46/T3-O/O	386.46	7.43 (3dB)	1.5	30@f0±10MHz	135×50×32
4HL10-393.66/T3-O/O	393.66	8.8(3dB)	1.37	30@f0±10MHz	135×50×32
4HL10-397.26/T3-O/O	397.26	7.69(3dB)	1.47	30@f0±10MHz	135×50×32
3FS10-1050/U20-O/O	1050	-	-	55@DC-700MHz	48×49×16
4FS10-1105/U290-P/P	1105	455(0.5dB)	-	10@DC-750MHz	70×39×40
5CC20-1200/U6-O/O	1200	6.6(1dB)	1.34	39@f0±7MHz	90×90×42
4FS10-1268.52/H50-O/O	1268.52	-	-	20@1.33-1.35GHz	135×39×50
5FS10-1268.52/T21-O/O	1268.52	21.1(3dB)	0.6	40@1244&1293MHz	150×36×46
4BJ10-12740/U12-O/O	1274	22(1dB)	-	40@12.69&12.79GHz	73×28×16
4FS10-1406/T80-P/P	1406	-	0.5	40@1.25&1.55GHz	57×36×16
4FS10-1406/T80-P/P	1406	-	0.5	40@1.25&1.55GHz	57×36×16
8CC20-1575/T50-O/O	1575	59.8(3dB)	0.76	33@DC-1535MHz	87×47×35
4FS10-1575.42/U3-MCX	1575.42	10(1dB)	1.39	40@1556&1593MHz	86.25×60×27
4FS10-1638/U16-O/O	1638	25(1dB)	0.6	50@1695-1700MHz	60×60×25
5FS10-1650/H100-O/O	1650	131(0.5dB)	-	40@1.48&1.81GHz	60×20×30
7CC20-1680/U70-O/O	1680	87.6(1dB)	1.09	40@1.6&1.75GHz	48×37×26
4FS10-1800/T100-P/P	1800	150.1(3dB)	0.27	40@f0±220MHz	57×21×29
7FS10-1840/U100-O/O	1840	168.2(1dB)	-	30@1660-1740MHz	81×19×27
8FS10-2000/U200-O/O	2000	310(1dB)	-	55@f0±300MHz	80×20×25
4FS10-2036/T80-P/P	2036	115(3dB)	0.55	30@f0±110MHz	57×29×16
5FS10-2095/U30-O/O	2095	43(1dB)	-	85@f0±150MHz	123×35×25
12CC10-2150/H40-O/O	2150	88(1dB)	0.72	70@f0±100MHz	143×52×26.5
4CC10-2240/T40-P/P	2240	68(3dB)	0.7	30@f0±80MHz	57×29×16
4FS10-2250/H100-O/O	2250	143(0.5dB)	-	50@5.5-5.7GHz	58×25×16
4FS10-2280/T100-P/P	2280	130.8(3dB)	0.42	35@f0±200MHz	57×21×27
6FS10-2280/T40-P/P	2280	50(3dB)	1.57	35@2.2&2.32GHz	41×30×25
4HD20-2282/U22-P/P	2282	39.6(1dB)	-	20@f0±40MHz	84×80×35.8
3CC10-2300/U20-O/O	2300	52.5(1dB)	-	38@2.2&2.5GHz	45×21×28
6CC20-2300/U20-O/O	2300	30.3(1dB)	-	40@2269&2329GHz	133×90×30
5CC20-2360/H50-P/P	2360	63.6(0.5dB)	0.91	40@2.28&2.44GHz	40×24×22
4FS10-2443/T30-O/O	2443	87.9(3dB)	-	65@f0±400MHz	68×28×18
4HD10-2492/T8-O/O	2492	9(3dB)	0.67	40@f0±20MHz	90×90×38

Part Number	Center Freq. (MHz)	Typ. BW (MHz)	Typ. IL@ f0 (dB)	Min. Rejection (dBc)	Size (mm)
8FD10-3000/U250-P/P	3000	270(1dB)	-	40@2.8&3.2GHz	65×28×13
4FS10-3120/H300-P/P	3120	450.1(0.5dB)	-	40@2.18&3.75GHz	30×23×10.5
13FD10-3125/T250-P/P	3125	268(2dB)	1.09	40@2960&3285MHz	100×34×12.5
5FS10-3300/T50-O/O	3300	87.2(3dB)	0.8	40@f0±90MHz	64×26×12
7CC10-3360/T100-O/O	3360	132(3dB)	-	80@3.6&6.69GHz	100×32×18
8FS10-3400/U220-P/P	3400	227.6(1dB)	0.88	40@f0±200MHz	96×20×13
8FD10-3400/U250-P/P	3400	270(1dB)	-	80@3.2&3.61GHz	65×28×13
8CC10-3600/T100-O/O	3600	163.3(3dB)	-	80@3.36&6.96GHz	113×32×18
9FS10-3720/U200-P/P	3720	218.1(1dB)	0.78	65@f0±200MHz	83×12×15.5
7FD10-3750/U500-O/O	3750	640(1dB)	0.2	70@4.7-5GHz	53×30×13
9FS10-3920/U200-P/P	3920	206.5(1dB)	1.04	65@f0±200MHz	83×12×15.5
6FD10-4000/H1000-SMP	4000	1482.1(0.5dB)	-	30@f0±1500MHz	36×29×13
9FS10-4020/U50-P/P	4020	64.3(1dB)	2.51	80@f0±100MHz	83×12×15.5
5FD10-4050/H300-O/O	4050	410.2(0.5dB)	0.21	40@3.58&4.51GHz	50×25×15
9FS10-4120/U200-P/P	4120	213(1dB)	1.03	65@f0±200MHz	83×12×15.5
6FS10-4150/H100-N/N	4150	115(0.5dB)	-	40@4.04&4.25GHz	86×60×24
8FD10-4150/H1400-P/P	4150	1680(0.5dB)	-	60@2.6&6GHz	38×25×10
9FS10-4220/U50-P/P	4220	65.9(1dB)	2.45	80@f0±100MHz	83×12×15.5
9FD10-4400/U400-O/O	4400	412.6(1dB)	0.63	40@4.1&4.7GHz	61×27×13
9FS10-4520/U50-P/P	4520	67.9(1dB)	2.47	80@f0±100MHz	83×12×15.5
5FS10-4550/H120-O/O	4550	150(0.5dB)	1.15	40@4.39&4.72GHz	56×31×12.5
6FD10-4720/H1000-SMP	4720	1512.8(0.5dB)	-	30@f0±1500MHz	36×29×13
3FD10-4940/U30-O/O	4940	66.1(1dB)	-	60@DC-4GHz	37×23×13
6FD10-4950/H500-O/OP	4950	594.3(0.5dB)	0.42	65@3.5-4GHz	52×24×14
10CC20-5000/U1000-O/O	5000	1050(1dB)	0.28	65@f0±1000MHz	82×37×15
6FS10-5250/U110-P/P	5250	140(1dB)	-	20@5.4-5.5Hz	60×20×10
3FS10-5350/U400-P/P	5350	507.3(1dB)	-	40@2-2.15GHz	24×15×12
13FD10-5500/H1000-O/O	5500	1046(0.5dB)	-	55@f0±700MHz	100×24×17.5
5FD10-5600/U65-O/O	5600	93.1(1dB)	1.56	40@f0±110MHz	42×21×10
8FD10-5625/H550-P/P	5625	622(0.5dB)	-	40@f0±475MHz	66×20×14
9FD10-5650/U500-P/P	5650	580(1dB)	-	55@f0±500MHz	70×23×13
7FD10-5750/U200-P/P	5750	329(1dB)	-	70@5.15&7.15GHz	55×21×12

Part Number	Center Freq. (MHz)	Typ. BW (MHz)	Typ. IL@ f0 (dB)	Min. Rejection (dBc)	Size (mm)
6FD10-5800/U400-O/O	5800	466(1dB)	-	30@f0±400MHz	45×22×12
5FD10-5850/U130-O/O	5850	249.2(1dB)	-	40@5.57&6.14GHz	62×23×15
9FD10-6250/U600-O/O	6250	730(1dB)	0.35	35@5.7&6.74GHz	48×21×12
5FS10-6300/T60-O/O	6300	122(3dB)	1.2	40@6.15&6.44GHz	46×16×8
6FS10-6300/U800-O/O	6300	878(1dB)	0.2	38@f0±800MHz	70×19×12
8FD10-6400/U1800-O/O	6400	2126.1(1dB)	0.51	40@4.82&7.92Hz	77×25×12
6FD10-6590/U400-P/O	6590	419.4(1dB)	-	40@6.2&6.98GHz	47×20×12.5
9FD10-6600/U500-O/O	6600	690(1dB)	0.63	40@6.13&7.08GHz	58×25×9
7FD10-6750/U1520-OP/O	6750	1661(1dB)	-	35@f0±1450MHz	38×22×10
8FD10-6795/U180-P/P	6795	232.1(3dB)	-	40@6.62&6.97Hz	67×20×13
5FD10-6900/U400-P/P	6900	500(1dB)	0.53	65@4.4&7.9GHz	36×19×10
5FD10-6960/T120-O/O	6960	836.8(3dB)	-	80@f0±3360MHz	28×20×11
8FD10-7000/T800-OP/O	7000	998(3dB)	-	60@f0±940MHz	45×21×11
13FS10-7140/U500-O/O	7140	529.1(1dB)	-	40@6.8&7.5GHz	120×40×13
6FS10-7160/T100-O/O	7160	127(1dB)	0.8	40@f0±150MHz	81×16×16
3HD10-7210/U7-O/P-1	7210	13.3(1dB)	1.05	25@f0±30MHz	57×20×15
4FD10-7210/T100-O/O	7210	145.7(3dB)	0.98	25@f0±150MHz	35×18×11
6FS10-7210/T300-O/O	7210	390(3dB)	0.65	25@f0±310MHz	47×17×12
3HD10-7223/U7-O/P-1	7223	14.2(1dB)	1.1	40@f0±45MHz	57×20×15
7FD10-7500/U500-O/O	7500	720(1dB)	-	95@4.85-5.35GHz	56×19×12
7FD10-7500/U1800-O/O	7500	1846(1dB)	0.22	75@f0±4GHz	45×19×13
4FD10-7700/U200-P/P	7700	294(1dB)	0.55	40@7.2&8.3GHz	33×19×11
6FD10-7730/U200-O/O	7730	213.7(1dB)	-	40@f0±230MHz	60×20×13
4FD10-7970/H100-O/O	7970	233.4(1dB)	-	20@7.58&8.26GHz	38×17×12
5FD10-8000/H2000-SMP	8000	2648(0.5dB)	0.22	40@f0±4000MHz	32×20×13
7FS10-8050/U600-O/O	8050	650(1dB)	-	40@7.5&8.75GHz	80×17×12
7FD10-8150/U500-O/O	8150	567(1dB)	-	40@7.68&8.6GHz	58×18×13
9FD10-8200/H800-O/O	8200	863(0.5dB)	-	10@f0±520MHz	58×25×9
8FD10-8220/H450-O/O	8220	-	0.74	40@7.77&8.66Hz	67×19×13
7FD10-8225/U500-P/O	8225	540.5(1dB)	1.06	30@DC-7775MHz	55×21×12
4FS10-8250/U500-P/P	8250	659.5(1dB)	-	70@16-18GHz	27×16×8
8FD10-8300/U125-O/O	8300	227.7(1dB)	1.41	50@f0±300MHz	68×19×13

Part Number	Center Freq. (MHz)	Typ. BW (MHz)	Typ. IL@ f0 (dB)	Min. Rejection (dBc)	Size (mm)
3FD10-8400/T50-P/P	8400	158(3dB)	1.02	60@7.5&9.3GHz	35×19×14
10FD10-8400/U2000-O/O	8400	2230(1dB)	0.15	40@6.92&9.85GHz	56×19×12
6FS10-8420/T100-O/O	8420	138.2(1dB)	0.86	35@f0±150MHz	81×16×16
4FD10-8450/T50-O/O	8450	78.5(3dB)	2.65	20@f0±75MHz	35×18×11
4FD10-8450/T150-O/O	8450	213.3(3dB)	1.19	25@f0±225MHz	35×18×11
4HD10-8475/H50-P/P	8475	87.2(3dB)	0.74	100@7.1-7.3GMHz	35×35×16
7FD10-8500/U1100-P/P	8500	1145(1dB)	0.51	40@7.54-9.42GMHz	45×18×12
5FD10-8620/U120-P/P	8620	138.5(1dB)	1.6	40@f0±200MHz	38×16×11
5FD10-8680/H200-O/O	8680	238.2(0.5dB)	0.69	50@f0±400MHz	50×18×13
5FD10-8750/H30-P/P	8750	72(1dB)	2.97	72@f0±220MHz	36×14.5×7.5
5FS10-8800/U40-P/P	8800	85.4(1dB)	2.47	40@8686&8922MHz	51×18×11
8FD10-8820/U300-O/O	8820	332.1(1dB)	-	50@f0±300MHz	67×19×13
6HD10-8838/H15-O/O	8838	19.5(0.5dB)	3.64	55@f0±60MHz	90×21×17
6FD10-9000/U1600-O/O	9000	1764(1dB)	0.37	70@DC-4.9GHz	41×19×13
9FD10-9000/U400-O/O	9000	440(1dB)	0.75	40@8.68&9.31GHz	79×18×13
3FD10-9200/H430-O/OP	9200	460.2(0.5dB)	0.31	35@f0±2135MHz	33×18×13
5FS10-9200/U40-P/P	9200	78.1(1dB)	2.07	40@9084&9322MHz	51×18×11
3FD10-9210/U130-O/O	9210	148.5(1dB)	0.71	34@f0±315MHz	41×18×13
6FS10-9220/U220-O/O	9220	240.4(1dB)	-	70@1000-8520MHz	53×30×12
6HD10-9222/H15-O/O	9222	15.9(0.5dB)	3.94	55@f0±60MHz	90×21×17
6FD10-9238/U180-P/P	9238	211.8(1dB)	-	60@f0±320MHz	60×17×13
7FD10-9300/H600-P/P	9300	652.1(1dB)	0.49	70@f0±1.2GHz	56×13×13
6FD10-9358/U460-P/P	9358	515.1(1dB)	0.79	60@DC-8.6GHz	50×17×13
4FD10-9405/U70-P/P	9405	132.2(1dB)	1.3	60@f0±350MHz	45×17×13.5
7FD10-9500/U1000-P/P	9500	1045(1dB)	0.52	60@f0±1.2GHz	42×18×11
7FD10-9600/U1000-P/P	9600	1240(1dB)	-	50@DC-8.1GHz	56×17×16.5
8FD10-9600/H1600-O/O	9600	1750(0.5dB)	0.9	40@8&11.2GHz	62×20×12
8FD10-9600/U1600-P/P	9600	2136(1dB)	-	40@8&11.2GHz	56×17×16.5
6FD10-9750/H600-P/P	9750	697.1(0.5dB)	0.5	40@9.09&10.42GHz	38.5×17×11
7FD10-9750/U1520-OP/O	9750	1650(1dB)	0.36	35@f0±1450MHz	38×22×10
6FS10-9900/H1000-P/P	9900	1140(1dB)	-	35@8.72&10.88GHz	42×17×9
5HD10-10000/T50-O/O	10000	55.9(3dB)	1.63	40@f0±100MHz	82×22×16

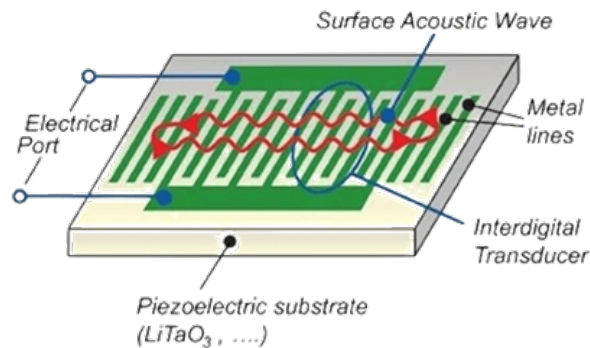
Part Number	Center Freq. (MHz)	Typ. BW (MHz)	Typ. IL@ f0 (dB)	Min. Rejection (dBc)	Size (mm)
6FD10-10100/T800-O/O	10100	926(3dB)	0.47	70@DC-8500MHz	50×17×12
5FS10-10300/T60-O/O	10300	75.2(3dB)	2.4	40@10.18&10.42GHz	45×15×8
7FD10-10300/H600-P/P	10300	640.5(0.5dB)	-	55@f0±800MHz	56×13×13
5FD10-10320T200-O/O	10320	466.1(3dB)	-	40@9.8&10.8Hz	49×18×13
6HD10-10486/T12-OP/OP	10486	13.2(3dB)	4.3	40@f0±20MHz	33×47×16
6BJ20-10520/U100-O/O	10520	131.5(1dB)	-	60@f0±200MHz	52×75×18
6FD10-10700/U300-P/P	10700	357(1dB)	1.1	40@10.33&11.04GHz	45×14×9
7FD10-10700/H600-P/P	10700	710(1dB)	-	55@f0±800MHz	56×13×13
7FD10-10950/U500-O/OP	10950	591.1(1dB)	-	40@10.44&11.45GHz	54×17×13
8FD10-11000/H1800-O/O	11000	1980(0.5dB)	0.68	40@9.41&12.53GHz	62×20×12
6FS10-11200/T280-O/O	11200	260(3dB)	0.55	40@f0±300MHz	36×36×13
8FD10-11200/U1600-S/S	11200	1702.1(1dB)	0.8	50@f0±1500MHz	40×14×9
11FD10-11250/U3500-O/O	11250	3650.4(1dB)	-	60@8.5&14GHz	45×17×11
4FS10-11500/U840-P/P-2	11500	1129(1dB)	0.42	65@5.84&16.62GHz	30×15×14
9FD10-11500/U1000-P/P	11500	1104(1dB)	-	60@10.5&21GHz	51×17×11
6FD10-11550/U600-P/P	11550	742.7(1dB)	0.68	40@10.9&12.23GHz	41×14×9
3FD10-11630/T100-P/P	11630	193.2(3dB)	1.2	80@6&16GHz	31×17×11
7FD10-11700/H600-P/P	11700	680(1dB)	-	55@f0±800MHz	56×13×13
5FD10-11915/U2000-O/O	11915	2771.9(1dB)	-	30@f0±110MHz	35×20×15
5FD10-12500/H500-P/P	12500	556.2(0.5dB)	-	60@f0±1.5GHz	37×16×11
8FD10-12500/H1000-O/O	12500	1319(0.5dB)	0.33	40@11.54&13.55GHz	63×21×11
7FD10-12900/U1400-P/P	12900	1575(1dB)	0.43	70@f0±2.2GHz	42×17×11
5FD10-12900/U1000-O/O	12900	11050(1dB)	0.26	40@11.6&14.2GHz	35×16×11
6BJ20-12900/T400-O/O	12900	462(3dB)	-	40@12.5&13.4GHz	114×25×15
8FD10-13000/T800-OP/O	13000	839.3(3dB)	-	60@f0±800MHz	61×18×13
3FS10-13140/U500-P/P	13140	689(1dB)	0.29	40@f0±1750MHz	32×13×10.5
4FS10-13140/U1050-P/P	13140	1309(1dB)	-	40@11.3&15.2GHz	32×13×10.5
7FD10-13200/U600-O/OP	13200	840(1dB)	-	40@12.43&13.82GHz	54×17×13
7FS10-13400/U100-SMP	13400	127(1dB)	3.8	70@f0±200MHz	58×14×11
8FD10-13500/T800-OP/O	13500	1004(1dB)	-	60@f0±940MHz	59×17×12
7FS10-13600/U100-SMP	13600	131(1dB)	3.87	70@f0±200MHz	55×15×11
7FS10-13800/U100-SMP	13800	133(1dB)	0.39	70@f0±200MHz	58×14×11

Part Number	Center Freq. (MHz)	Typ. BW (MHz)	Typ. IL@ f0 (dB)	Min. Rejection (dBc)	Size (mm)
7FD10-13850/U300-P/P	13850	700.6(1dB)	-	60@f0±1000MHz	57×17×12
9FD10-14000/T800-OP/O	14000	898.3(3dB)	-	60@f0±800MHz	66×18×13
4BJ10-14013/U18-O/O	14013	22(1dB)	-	40@13.97&14.06GHz	68×25×15
4BJ10-14075/U12-O/O	14075	18(1dB)	-	40@14.03&14.12GHz	68×25×15
4BJ10-14198/U18-O/O	14198	24(1dB)	-	40@14.12&14.25GHz	68×25×15
7FD10-14250/U1520-OP/O	14250	1746(1dB)	0.52	33@f0±1450MHz	41×22×10
4BJ10-14305/U12-O/O	14305	20(1dB)	-	40@14.25&14.37GHz	68×25×15
4FD10-14400/T160-P/P	14400	284.4(3dB)	1.76	60@f0±800MHz	37×17×10
5FD10-14400/U800-O/O	14400	1029(1dB)	-	70@f0±2500MHz	37×17×10
3BJ10-14500/U120-P/P	14500	146.2(3dB)	0.93	40@14.1&14.9GHz	45×30×11
6FD10-14500/U3600-P/P	14500	4256(1dB)	-	40@10.5&18.3GHz	30×16×12
5FD10-14570/U600-P/P	14570	753(1dB)	1.01	40@f0±300MHz	35×16×9.5
8FD10-14750/H1500-O/O	14750	1640(0.5dB)	0.71	40@13.3&16.2GHz	63×21×11
11FD10-14750/U3500-O/O	14750	3580(1dB)	-	35@12.4&17.1GHz	47×17×11
7FS10-14800/U100-O/O	14800	130.6(1dB)	4.29	65@f0±250MHz	70×17×12
9BJ10-14800/H400-O/O	14800	486.2(0.5dB)	0.53	40@14.46&15.15GHz	84×39×14
11FD10-14800/T700-O/O	14800	816.1(3dB)	-	40@14.3&15.4GHz	69×16×11
12FD10-14800/U3300-O/O	14800	3358(1dB)	0.56	58@f0±2.4GHz	65×18×11
5FS10-14940/U500-P/P	14940	780.5(1dB)	-	40@14.11&15.82GHz	51×13×10.5
5FD10-15000/T150-P/P	15000	230.1(3dB)	0.55	65@f0±500MHz	45×15×10.5
6FS10-15000/U1050-P/P	15000	1160(1dB)	-	40@13.9&16.2GHz	51×13×10.5
4FD10-15100/T500-O/O	15100	880.1(3dB)	-	40@13.9&16.3GHz	32×16×11
11FD10-15400/T700-O/O	15400	831.1(3dB)	-	40@14.9&16GHz	68×16×11
5FD10-15500/U500-P/P	15500	602.4(1dB)	-	50@f0±1000MHz	32×18×10
9FD10-15500/T800-OP/O	15500	950.6(3dB)	1.14	60@f0±830MHz	62×17×12
4FD10-15520/U500-P/P	15520	662.4(1dB)	0.86	50@f0±1500MHz	30×16×9.5
11FD10-15700/T700-O/O	15700	820(3dB)	-	50@15.1&16.3GHz	69×16×11
5BJ10-16000/U100-O/O	16000	158(1dB)	0.68	70@f0±400MHz	85×22×13.5
8FS10-16500/U800-O/O	16500	879(1dB)	-	65@f0±1000MHz	50.5×15×15
6FD10-16550/T500-O/O	16550	576.2(3dB)	1.15	40@15.9&17.1GHz	48×17×10.5
12FD10-17000/T1000-OP/O	17000	1093(3dB)	0.77	60@f0±800MHz	73×17×11
4FD10-17800/U800-O/O	17800	1214(1dB)	0.46	60@9.1&26.1GHz	30×17×11

Part Number	Center Freq. (MHz)	Typ. BW (MHz)	Typ. IL@ f0 (dB)	Min. Rejection (dBc)	Size (mm)
10FD10-18000/T800-OP/O	18000	949.6(3dB)	-	60@f0±800MHz	61×18×13
3BJ10-18100/U120-O/O	18100	135.2(1dB)	0.75	40@17.7&18.5GHz	43×23×11
3BJ10-18100/U120-P/P	18100	135.8(3dB)	0.88	40@17.7&18.5GHz	43×23×11
9FD10-18750/U5500-O/O	18750	6.15(1dB)	0.4	50@10.75&24GHz	38×12.5×9
12FD10-19000/T1000-OP/O	19000	1137.1(3dB)	1.27	60@f0±800MHz	73×17×11
12FD10-20000/T1000-OP/O	20000	1063.7(3dB)	1.52	60@f0±800MHz	73×17×11
13FD10-20300/U1800-O/OP	20300	2013(1dB)	1.15	40@19&21.6GHz	62×16×11
6FD10-20400/H1600-P/P	20400	2190(0.5dB)	-	40@18.4&22.5GHz	32×16×10
5FD10-20550/U600-P/P	20550	933(1dB)	0.44	35@1.95&2.17GHz	30×15×10
5BJ10-21650/H750-K/K	21650	997.5(0.5dB)	0.66	40@20.6&22.9GHz	52×19×12
5FS10-23800/T500-P/P	23800	543.7(3dB)	1.4	40@f0±1000MHz	30×14×11
5BJ10-25520/U320-P/P	25520	491.2(1dB)	0.9	40@f0±700MHz	46×18×11
5BJ10-25520/U250-P/P	25520	482.1(1dB)	1.05	40@f0±500MHz	46×18×11
9BJ10-25520/U650-P/P	25520	757.1(1dB)	1.05	15@f0±475MHz	78×18×11
5BJ10-26400/U337.5-P/P	26400	501.8(1dB)	0.89	35@f0±600MHz	44×18×11
9BJ10-26400/U750-P/P	26400	854.5(1dB)	1.04	15@f0±525MHz	74×18×11
4BJ10-32050/U600-K/K	32050	1540(1dB)	-	50@DC-24GHz	32×17×10

INTRODUCTION

The Surface Acoustic Wave (SAW) filter is a passive band-pass filter made by using the piezoelectric effect and the physical characteristics of surface acoustic wave propagation. Its role is to filter and delay electrical signals. It has the advantages of small size, stable performance, strong overload capacity, low phase distortion, and no need to adjust, so it is used in televisions, video recorders, wireless data transmission systems and other fields.



FEATURES

1. The frequency response is flat; the ripple is around ± 0.3 - ± 0.5 dB typ.
2. The SAW Filter has good rectangular coefficient.
3. Although the insertion loss is as high as 30-35dB some time, an amplifier can be used to compensate for the level loss.
4. Excellent frequency selectivity (the selectable frequency range is 30MHz ~ 3.6GHz with relative bandwidth 0.02% - 60%).
5. High reliability and excellent consistency.
6. The SAW Filter body is small & light and its volume and weight are about 1/40 and 1/30 of the ceramic dielectric filter and can realize a variety of complex functions. SMD and DIP packages both are available.



Part Number	Center Frequency (MHZ)	Passband (MHZ)	Size (mm)	Band	Datasheet
STCE071-0634SA	634.5	617.34-651.66	1.80x1.40x0.65	B71 Unbalanced	
STCH064-0722SA	722.5	717-728	1.1x0.9x0.65	B29 Unbalanced	
STCH028-0737SA	737.5	729-746	1.1x0.9x0.65	B12 Unbalanced	
STCH015-0740SA	740	734.25-745.75	1.1x0.9x0.65	B17 Unbalanced	
STCH069-0742SA	742.5	729-756	1.1x0.9x0.65	B12+B13+B17 Unbalanced	
STCH046-0748SA	748.5	729-768	1.1x0.9x0.65	B67 Unbalanced	
STCH023-0751SA	751	746.25-755.75	1.1x0.9x0.65	B13 Unbalanced	
STCH040-0763SA	763	758-768	1.1x0.9x0.65	B14 Unbalanced	
STCH021-0773SA	773	758.25-787.75	1.1x0.9x0.65	B28A Unbalanced	
STCH026-0780SA	780.5	758.25-802.75	1.1x0.9x0.65	B28 Unbalanced	
STCH077-0780SA	780.5	758.25-802.75	1.1x0.9x0.65	B28 Unbalanced	
STCH022-0788SA	788	773.25-802.75	1.1x0.9x0.65	B28B Unbalanced	
STCH016-0806SA	806	791-821	1.1x0.9x0.65	B20 Unbalanced	
STCG018-0842SA	842.5	840-845	1.4x1.1x0.7	/	
STCH036-0845SA	845.75	840.5-851	1.1x0.9x0.65	Unbalanced	
STCG041-0865SA	865	860-870	1.4x1.1x0.7	B41 Unbalanced(194M)	
STCG031-0866SA	866.5	863.00-870.00	1.4x1.1x0.7	/	
STCG004-0869SA	869	868-870	1.4x1.1x0.7	/	
STCG019-0869SA	869.5	868-870	1.4x1.1x0.7	/	
STCH052-0876SA	876.5	859-894	1.1x0.9x0.65	B26 Unbalanced	
STCH005-0881SA	881	869-894	1.1x0.9x0.65	B5 Unbalanced	
STCG015-0881SD	881.5	869-894	1.4x1.1x0.7	Communication	
STCH007-0881SC	881.5	869-894	1.1x0.9x0.65	B5 Balanced	
STCH020-0881SA	881.5	869-894	1.1x0.9x0.65	B19 Unbalanced	
STCG042-0911SA	911	906-916	1.4x1.1x0.7	/	
STCG027-0911SA	911.5	898-925	1.4x1.1x0.7	/	
STCG008-0913SA	913	908.5-917.5	1.4x1.1x0.7	GPS	
STCG032-0915SA	915	902-928	1.4x1.1x0.7	/	
STCG043-0921SA	921	915-927	1.4x1.1x0.7	/	
STCH014-0942SA	942.5	925-960	1.1x0.9x0.65	B8 Unbalanced	
STCH018-0942SC	942.5	925-960	1.1x0.9x0.65	B8 Balanced	
STCH074-1080SA	1080	1050-1110	1.1x0.9x0.65	Unbalanced	

Part Number	Center Frequency (MHZ)	Passband (MHZ)	Size (mm)	Band	Datasheet
STCG044-1176SA	1176.45	1166.22-1186.68	1.4x1.1x0.7	GPS Unbalanced	
STCG037-1176SA	1176.45	1163.95-1188.95	1.4x1.1x0.7	/	
STCH059-1176SA	1176.45	1166.22-1186.68	1.1x0.9x0.65	GPS L5	
STCG038-1227SA	1227.6	1215.1-1240.1	1.4x1.1x0.7	/	
STCH025-1485SA	1485.9	1475.9-1495.9	1.1x0.9x0.65	B11 Unbalanced	
STCH073-1503SA	1503	1495.9-1510.9	1.1x0.9x0.65	B21 Unbalanced	
STCG002-1568SA	1568	1561-1576.42	1.4x1.1x0.7	Beidou/GPS	
STCG013-1575SA	1575.42	1575.42±1.2	1.4x1.1x0.7	Communication	
STCG009-1575SA	1575.42	1574.42-1576.42	1.4x1.1x0.7	GPS(Low insertion loss, high rejection)	
STCG003-1575SA	1575.42	1574.42-1576.42	1.4x1.1x0.7	GPS (Low insertion loss)	
STCG001-1575SA	1575.42	1574.42-1576.42	1.4x1.1x0.7	GPS Filter	
STCE009-1580SA	1580	1559.05-1605.89	1.80x1.40x0.65	GPS	
STCG010-1580SA	1580	1559.09-1605.89	1.4x1.1x0.7	Beidou/GPS/GLONASS	
STCH003-1580SA	1580	1559.09-1605.89	1.1x0.9x0.65	Beidou/GPS/GLONASS	
STCH045-1580SA	1580	1559.10-1605.89	1.1x0.9x0.65	Beidou/GPS/GLONASS	
STCG036-1582SA	1582	1559.05-1563.15	1.4x1.1x0.7	GPS/GLONASS	
STCG007-1588SA	1588.65	1571.42-1605.89	1.4x1.1x0.7	GPS/GLONASS	
STCG011-1795SA	1795	1785-1805	1.4x1.1x0.7	Communication	
STCG040-1842SA	1842	1805-1880	1.4x1.1x0.7	B3 Unbalanced	
STCH012-1842SA	1842	1805-1880	1.1x0.9x0.65	B3 Unbalanced	
STCH006-1900SA	1900	1880-1920	1.1x0.9x0.65	B39 Unbalanced	
STCH011-1960SA	1960	1930.0-1990.0	1.1x0.9x0.65	B2 Unbalanced	
STCH051-1962SA	1962.5	1930.6-1994.4	1.1x0.9x0.65	B25 Unbalanced	
STCH010-2140SA	2140	2110-2170	1.1x0.9x0.65	B1 Unbalanced	
STCH017-2140SC	2140	2110-2170	1.1x0.9x0.65	B1 Balanced	
STCH019-2140SA	2140	2110-2170	1.1x0.9x0.65	B4 Unbalanced	
STCH042-2155SA	2155	2110-2200	1.1x0.9x0.65	B66 Unbalanced	
STCG023-2350SA	2350	2300-2400	1.4x1.1x0.7	B40 Unbalanced	
STCH004-2350SA	2350	2300-2400	1.1x0.9x0.65	B40 Unbalanced	
STCH030-2350SA	2350	2300-2400	1.1x0.9x0.60	B40 Unbalanced	
STCH047-2350SA	2350	2300-2400	1.1x0.9x0.65	B40 Unbalanced	
STCH072-2350SA	2350	2300-2400	1.1x0.9x0.65	B40 Unbalanced	

Part Number	Center Frequency (MHZ)	Passband (MHZ)	Size (mm)	Band	Datasheet
STCH048-2355SA	2355	2350-2360	1.1x0.9x0.65	B30 Unbalanced	
STCE010-2442SA	2442	2402-2482	1.80x1.40x0.65	WiFi	
STCG052-2442SA	2442	2401-2483	1.4x1.1x0.7	ISM Unbalanced	
STCG020-2442SA	2442	2403-2471	1.4x1.1x0.7	2.4G WIFI	
STCG012-2442SA	2442	2401-2483	1.4x1.1x0.7	2.4G WIFI	
STCH024-2442SA	2442	2403-2481	1.1x0.9x0.65	2.4G WIFI	
STCH043-2442SA	2442	2401-2483	1.1x0.9x0.65	WIFI Unbalanced	
STCH054-2442SA	2442	2403-2481	1.1x0.9x0.65	WIFI Unbalanced	
STCH066-2442SA	2442	2401.5-2480.5	1.1x0.9x0.65	2.4G Bluetooth	
STCH076-2442SA	2442	2402.5-2481.5	1.1x0.9x0.65	2.4G WIFI	
STCH112-2442SA	2442	2402-2480	1.1x0.9x0.65	Unbalanced	
STCH034-2535SA	2535	2500-2570	1.1x0.9x0.65	B7 Unbalanced	
STCH009-2590SA	2590	2535-2545	1.1x0.9x0.65	B41 Unbalanced(120M)	
STCH037-2590SA	2590	2535-2655	1.1x0.9x0.65	B41 Unbalanced	
STCG050-2593SA	2593	2496-2690	1.4x1.1x0.65	B41 Unbalanced(194M)	
STCG046-2593SA	2593	2496-2690	1.4x1.1x0.7	B41 Unbalanced(194M)	
STCH060-2593SA	2593	2496-2690	1.1x0.9x0.65	B41 Unbalanced(194M)	
STCG026-2595SA	2595	2535-2655	1.4x1.1x0.7	B41 Unbalanced(120M)	
STCH008-2595SA	2595	2570-2620	1.1x0.9x0.65	B38 Unbalanced	
STCH027-2017SA	2595	2010-2025	1.1x0.9x0.65	B34 Unbalanced	
STCG024-2600SA	2600	2545-2655	1.4x1.1x0.7	B41 Unbalanced(110M)	
STCH056-2600SA	2600	2535-2655	1.1x0.9x0.65	B41 Unbalanced	
STCH065-2605SA	2605	2535-2675	1.1x0.9x0.65	B41 Unbalanced(140M)	
STCH075-2605SA	2605	2535-2675	1.1x0.9x0.65	B41 Unbalanced(140M)	
STCH013-2655SA	2655	2620-2690	1.1x0.9x0.65	Unbalanced	
STCH035-2655SA	2655	2620-2690	1.1x0.9x0.65	B7 Unbalanced	



CONTACT US

-  Address: Buliding 5-1004,Zijin R&D Center,No.89 Shengli Road,Jiangning,Nanjing 211100,China
-  Tel: +86 (25) 52635773
-  Email: sales@sainty-tech.com
-  Fax: +86 (25) 52632557
-  Website: www.sainty-tech.com