

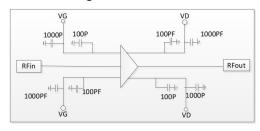
Performance

Frequency: 32~38GHzTypical Signal Gain: 19dBTypical Pout: 40dBm@24V

Bias: 24V, 1A (Static)Typical PAE: 25%

• Size: 19.2mm*9.15mm*1.84mm

Function Diagram

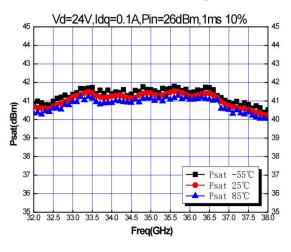


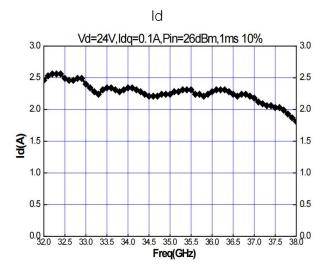
Electrical Specifications (TA=25°C, Vd=24V, Idq=0.1A, F: 32~38GHz,T=1ms,D.C=10%)

Symbol	Parameter	Min	Typical	Max	Unit
G	Small Signal Gain	-	19	-	dB
Gp	Power Gain	-	14	-	dB
Pout	Saturated Power	-	40	-	dBm
PAE	Power Added Efficiency	-	25	-	%

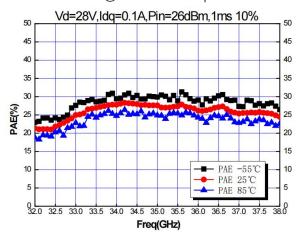
Test Curves









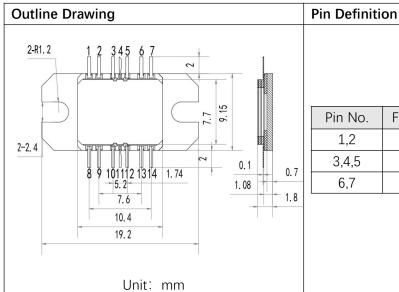




Absolute Max Ratings (TA=25°C)

Symbol	Parameter	Value	Remark
Vd	Drain Voltage	28V	
Vg	Gage Voltage	-10V	
lg	Gate Current	100mA	
Pin	Input Power	28dBm	
VSWRout	Output VSWR	5:1	
Operating Temp.	Operating Temperature range	140°C	
Tstg	Storage Temperature	-55~125℃	
ESD Level	ESD Sensitivity, Human Body Model	Class A	

Exceeding any one or combination of these limits may cause permanent damage.



Pin No.	Function	Pin No.	Function
1,2	VG	8,9	VD
3,4,5	RFin	10,11,12	RFout

13,14

RFout

VG



Recmmended external capacitor Vg Vd Symbol Recommended capacitance C1 10uF C2 1uF C3 1000pF C3 C3 1000pF

- 1. Apply the transmission line configuration as shown in drawing at RF input and output ports during usage.
- 2. Apply recommended operating voltage during turn on procedure.
- 3. When the module is operating under CW mode, add additional μ grade filter capacitors near Vd port as closely as possible.
- 4. If you use voltage stabilizer to switch the voltage, please make sure the selected stabilizer has higher over-current ability than recommended operating current.
- 5. During turn on procedure, first negative then positive time sequense.
- 6. Pay attention to current limiting during usage.
- 7. Make sure of well grounding during usage.
- 8. Pay attention to ESD protection during usage, storage and transportation.
- 9. Operating temperature has to be controlled strictly within the range data sheet specified.
- 10. When there's a quality issue, please return it to manufacture for repair, don't open the lid by yourself.