



HL8334 DC Block (7 kHz to 40 GHz)

Features and Technical Specifications

	Bandwidth	7 kHz to > 40 GHz (opt220) 2 kHz to > 40 GHz (opt2200)	
5	Amplitude Match	± 0.1 dB, typ.	
	Phase Match	± 4°, f = 40 GHz (optM)	
	Insertion Loss	< 0.75 dB typ. < 1.0 dB max See <i>Figs.1-2</i>	
•	Return Loss	20 dB, 20 kHz < f ≤ 25 GHz 15 dB, f > 25 GHz See <i>Fig.</i> 3	HL8334, optM-220-JP
	Breakdown Voltage	10 V, max	
I	Maximum Input Power	+30 dBm	0.0
	Group Delay	≈ 110 ps See <i>Fig. 4</i>	-5.0 -100 100 115.0 -200
	Rise Time (10-90%)	8.75 ps	Typical HL8334 Insertion and Return Loss
	Capacitance	220 nF (opt220) 2200 nF (opt2200)	
	Impedance	50 Ω	
	Connectors (PORT 1 / PORT 2)	2.92 mm, jack-jack 2.92 mm, jack-plug 2.92 mm, plug-plug	
	Dimensions	1.23" x 0.375" x 0.375" 31.2 x 9.53 x 9.53 mm	RF PORT 1 🚱 H PORT 2
>	Weight	8 g (0.28 oz.)	HL8334 Schematic and Port Assignments
-	Temperature Limits	-40° to +70° C, operating	
	RoHS Compliant	Yes, assembled with lead-free solder	
	REACH Compliant	Yes	
	Warranty	1 year, see website	

PRODUCT SUMMARY

The HL8334 is an ultra-broadband DC Block with a typical insertion loss of < 0.75 dB throughout the specified bandwidth range.

The DC block will remove DC bias from the input signal to prevent damage to DC-sensitive devices or equipment.

These devices are suitable for use in 112 Gbps PAM4 communications systems, optical communication systems, high-speed data systems, level shifting, cascading, and interfacing between devices with incompatible DC operating points.

They can also be used to improve RF power measurements when a power meter with DC sensitivities is used.

OPTIONS

Please specify one of the following options from each category:

-M, matched pair -U, unmatched part(s)

-220, 220 nF (0.22 μF) capacitor -2200, 2200 nF (2.2 µF) capacitor

-JJ, jack RF 1 and RF 2 -JP, jack RF 1, plug RF 2 -PP, plug RF 1 and RF 2



HL8334 Bandwidth and Insertion Loss

Figure 1 shows the insertion loss and bandwidth of the HL8334 from 10 MHz to 40 GHz. *Figure 2* shows the low-frequency response to 100 Hz.

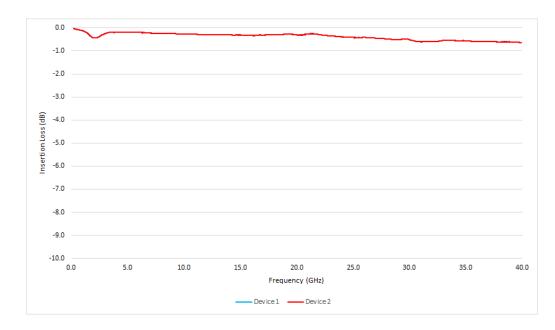


Figure 1: Typical HL8334 Bandwidth and Insertion loss

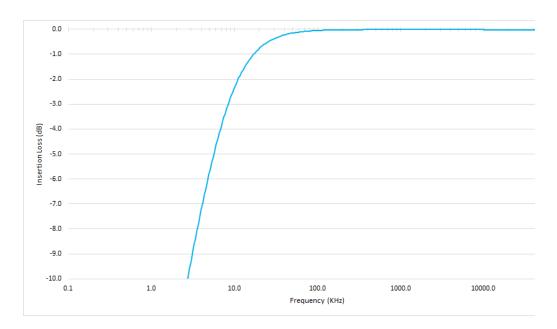
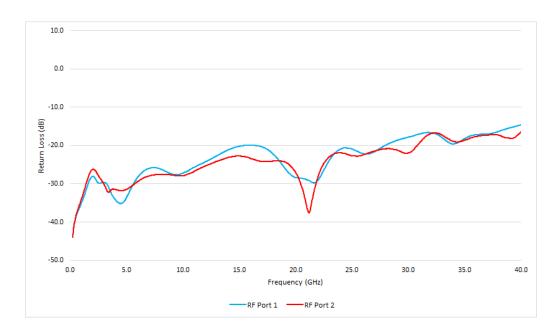


Figure 2: Typical HL8334-220 Low-frequency Performance



HL8334 Return Loss and Group Delay

Figure 3 shows return loss and *Figure 4* shows the typical HL8334 Group Delay from 10 MHz to 40 GHz.





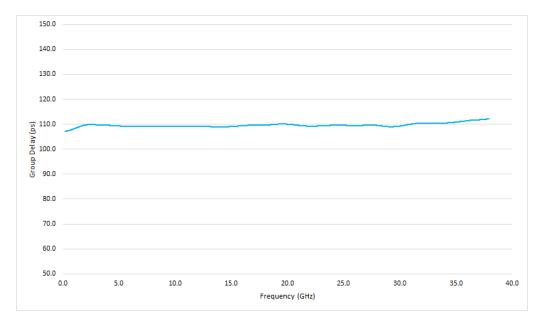


Figure 4: Typical HL8434 Group Delay

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HL8334 Dimensional Drawing

Figure 5 shows a mechanical drawing of an HL8334. Unless otherwise noted, all units are in inches. See page 1 for full dimensions.

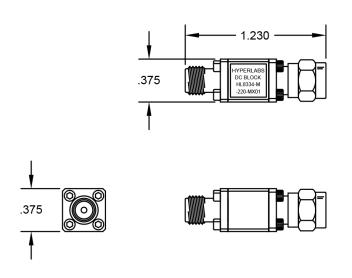




Fig 5: HL8334 Mechanical Drawing