

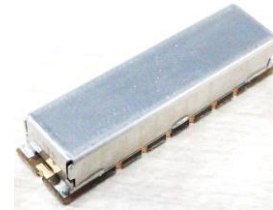
Band Pass Filter

BPF-EDU2050

Surface Mount

Important Note

This model has been designed, built and tested in our engineering department. Performance data represents model capability. At present it is a non-catalog model. On request, we can supply a final specification sheet, part number and price/delivery information.

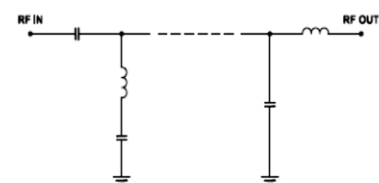


HQ1157

ELECTRICAL SPECIFICATIONS 50Ω @ +25°C				
Parameter	Min.	Typ.	Max.	Units
Passband (Loss < 3 dB)	1500		2300	MHz
Centre frequency		1900		MHz
Low Band (Loss > 20 dB)	DC	1100		MHz
High Band (Loss > 20 dB)		2800	4000	MHz
Passband VSWR		1.6		(:1)
Stopband VSWR		20		(:1)

Functional Schematic

MAXIMUM RATINGS	
Operating Temperature	-40°C to 85°C
Storage Temperature	-55°C to 100°C
RF Power Input	1 W

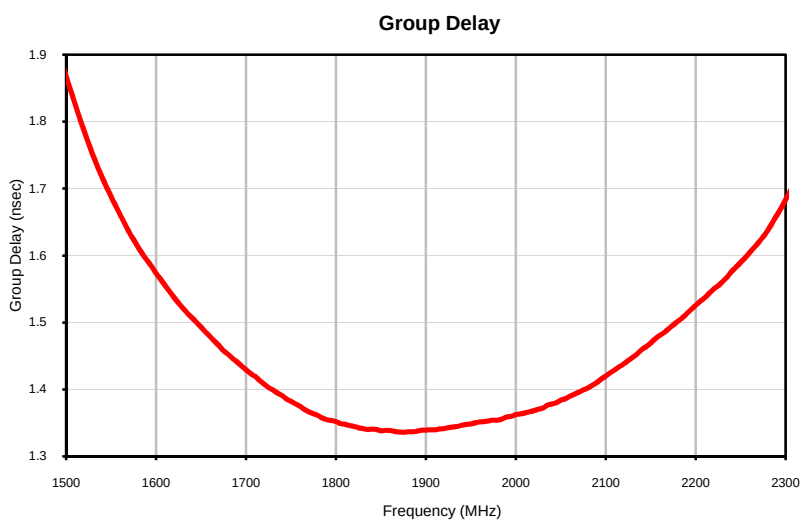
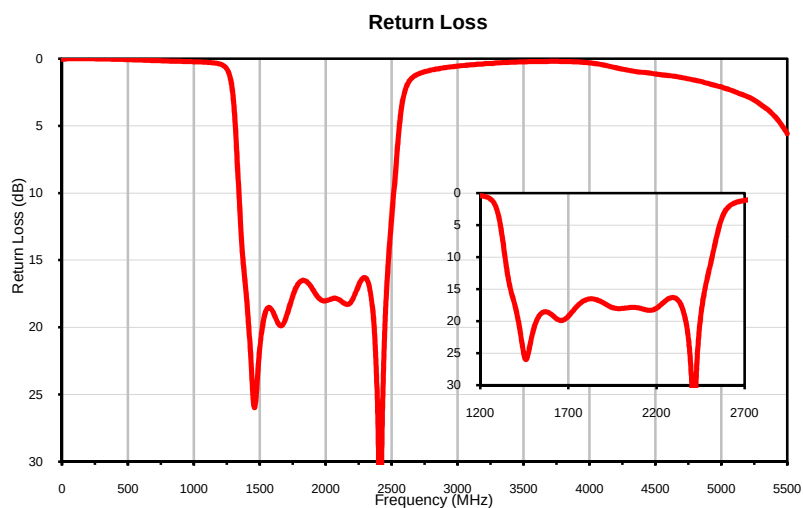
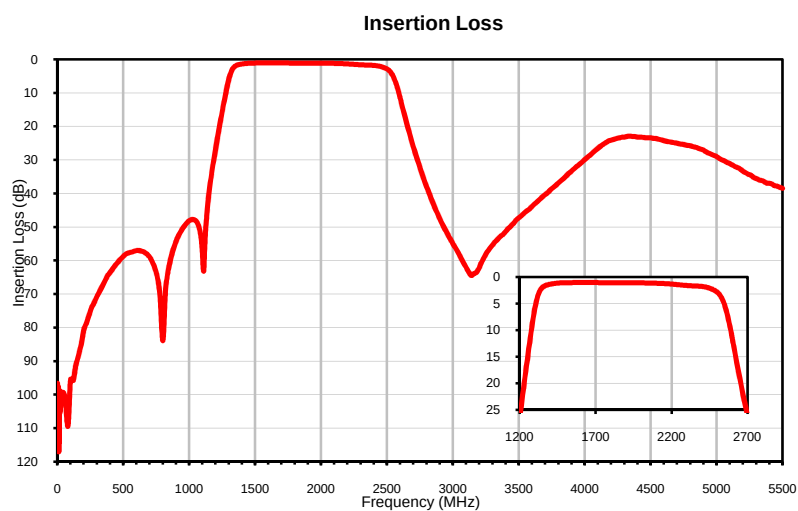


PIN CONNECTIONS	
Input	1
Output	8
Ground	2-7,9-14

Typical Performance Data

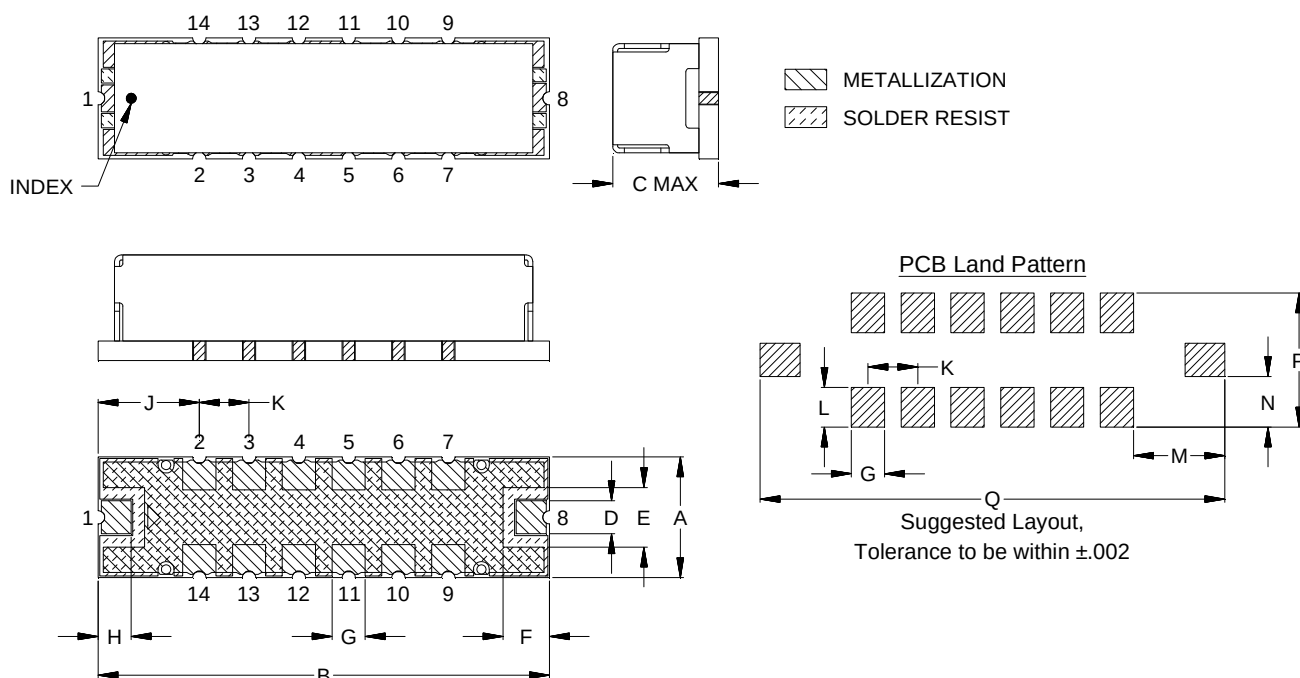
FREQUENCY (MHz)	INSERTION LOSS (dB)	RETURN LOSS (dB)	FREQUENCY (MHz)	GROUP DELAY (nsec)
1.0	96.66	0.05	1500	1.82
100.0	95.47	0.01	1525	1.72
400.0	63.48	0.05	1550	1.64
580.0	57.25	0.11	1575	1.57
900.0	54.24	0.21	1600	1.52
1060.0	48.63	0.26	1625	1.48
1180.0	31.46	0.37	1650	1.44
1230.0	19.94	0.57	1675	1.41
1320.0	3.52	5.98	1700	1.38
1340.0	2.26	9.91	1725	1.35
1400.0	1.35	17.91	1750	1.33
1500.0	1.07	21.54	1800	1.30
1900.0	1.07	17.17	1825	1.29
2300.0	1.59	16.32	1850	1.29
2500.0	2.84	11.87	1875	1.29
2530.0	3.91	8.21	1900	1.29
2660.0	20.52	1.39	1950	1.30
2730.0	29.85	1.04	2000	1.31
2820.0	39.98	0.81	2050	1.33
3000.0	54.99	0.56	2100	1.37
3200.0	62.09	0.39	2150	1.42
3620.0	43.09	0.22	2200	1.48
3800.0	36.88	0.22	2250	1.54
4000.0	29.87	0.32	2300	1.63

Typical Performance Curves



Outline Dimensions

HQ1157



CASE#	A	B	C	D	E	F	G	H	J	K	L	M
HQ1157	.365 (9.27)	1.360 (34.54)	.350 (8.89)	.100 (2.54)	.180 (4.57)	.140 (3.56)	.100 (2.54)	.100 (2.54)	.305 (7.75)	.150 (3.81)	.120 (3.05)	.275 (6.99)

CASE#	N	P	Q	WT.GRAM
HQ1157	.152 (3.87)	.405 (10.29)	1.400 (35.56)	4.0

Dimensions are in inches (mm). Tolerances: 2Pl. ± .03; 3Pl. ± .015

Notes:

- Case material: Nickel-Silver alloy.
- Base: Printed wiring laminate.
- Termination finish:
For RoHS Case Styles: 3-5 μ inch (.08-.13 microns) Gold over 120-240 μ inch (3.05-6.10 microns) Nickel plate.
For RoHS-5 Case Styles: Tin-Lead plate.

Mini-Circuits®
ISO 9001 ISO 14001 CERTIFIED

ALL NEW
minicircuits.com

P.O. Box 350166, Brooklyn, New York 11235-0003 (718) 934-4500 Fax (718) 332-4661 For detailed performance specs & shopping online see Mini-Circuits web site

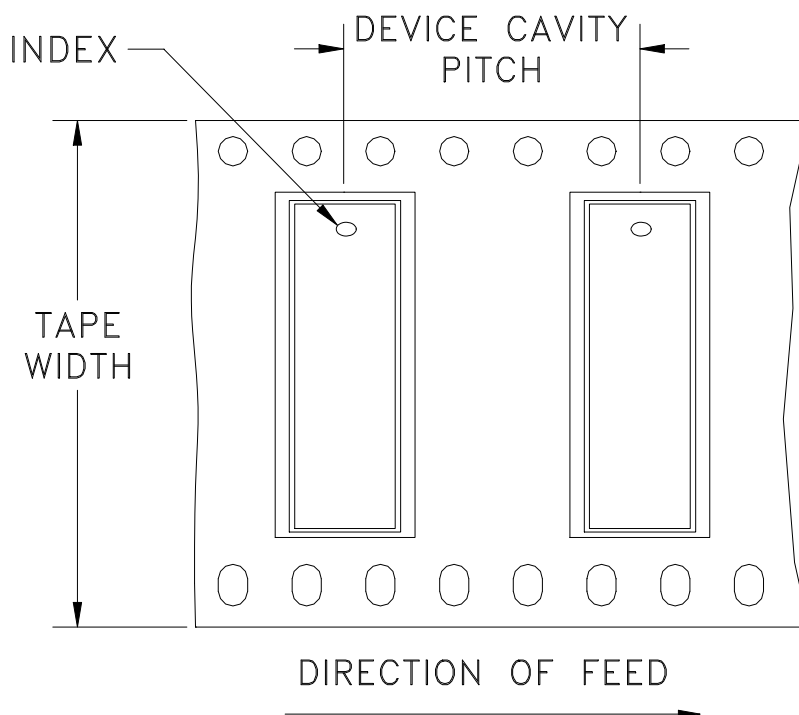


The Design Engineers Search Engine Provides ACTUAL Data Instantly From MINI-CIRCUITS At: www.minicircuits.com

RFIIF MICROWAVE COMPONENTS

Tape & Reel Packaging TR-F83

DEVICE ORIENTATION IN T&R



Tape Width, mm	Device Cavity Pitch, mm	Reel Size, inches	Devices per Reel
56	16	13	100

Mini-Circuits carrier tape materials provide protection from ESD (Electro-Static Discharge) during handling and transportation. Tapes are static dissipative and comply with industry standards EIA-481/EIA-541.

Go to: www.minicircuits.com/pages/pdfs/tape.pdf



INTERNET <http://www.minicircuits.com>
P.O. Box 350166, Brooklyn, New York 11235-0003 (718) 934-4500 Fax (718) 332-4661
Distribution Centers NORTH AMERICA 800-654-7949 • 417-335-5935 • Fax 417-335-5945 • EUROPE 44-1252-832600 • Fax 44-1252-837010
Mini-Circuits ISO 9001 & ISO 14001 Certified