

Bandpass Filter

BPF-C450+

50Ω 400 to 510 MHz

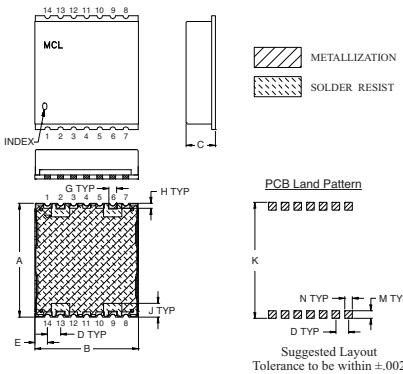
Maximum Ratings

Operating Temperature	-40°C to 85°C
Storage Temperature	-55°C to 100°C
RF Power Input	0.5W Max.

Permanent damage may occur if any of these limits are exceeded.

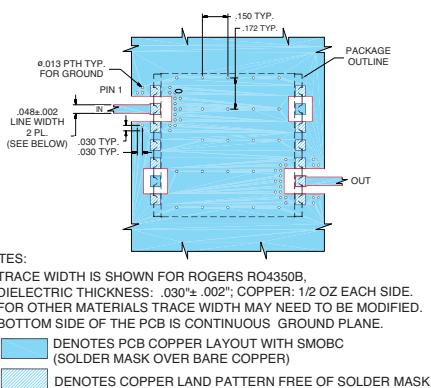
Pin Connections

INPUT	2
OUTPUT	9
NOT CONNECTED	6, 13
GROUND	1, 3, 4, 5, 7, 8, 10, 11, 12, 14

Outline Drawing**Outline Dimensions (Inch mm)**

A	B	C	D	E	G	H	J	K	M	N	wt.
.870	.800	.25	.100	.097	.060	.040	.105	.910	.060	.060	grams

22.10 20.32 6.35 2.54 2.46 1.52 1.02 2.67 23.11 1.52 1.52 2.85

**Demo Board MCL P/N: TB-500+
Suggested PCB Layout (PL-294)****Features**

- Good VSWR, 1.3:1 typ @ passband
- High rejection
- Shielded case
- Aqueous washable



CASE STYLE: HU1186

PRICE: \$26.95 ea. QTY (1-9)

+RoHS Compliant

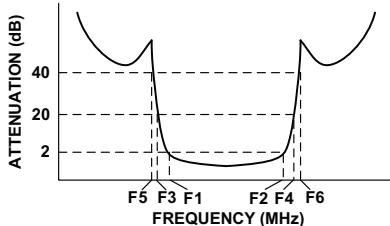
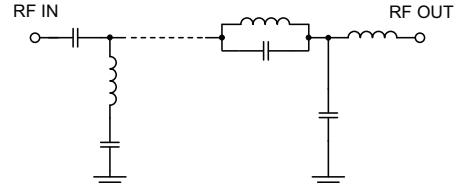
The +Suffix identifies RoHS Compliance. See our web site for RoHS Compliance methodologies and qualifications

Applications

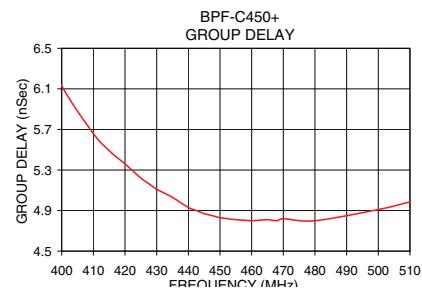
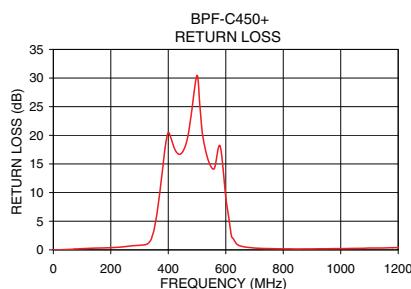
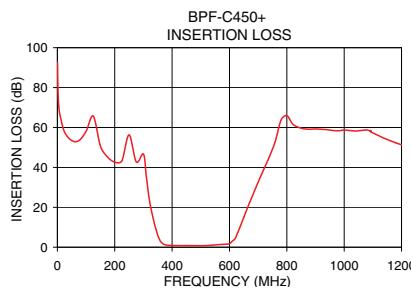
- Military and avionics
- Receivers / transmitters
- Harmonic rejection

Bandpass Filter Electrical Specifications ($T_{AMB} = 25^\circ C$)

CENTER FREQ. (MHz) Fc	PASSBAND (MHz) (Loss < 2dB) F1 - F2	STOPBANDS (MHz)				VSWR (:1)		
		F3	F4	F5	F6	Passband Typ.	Max.	Stopband Typ.
450	400 - 510	310	700	150	760 - 1200	1.3	1.7	18

Typical Frequency Response**Functional Schematic****Typical Performance Data at 25°C**

Frequency (MHz)	Insertion Loss (dB)	Return Loss (dB)	Frequency (MHz)	Group Delay (nSec)
	\bar{x}	σ		
0.5	92.65	1.56	400.0	6.13
150.0	50.75	0.54	410.0	5.66
310.0	35.49	5.18	415.0	5.49
340.0	10.85	1.26	420.0	5.36
355.0	4.37	0.28	425.0	5.22
365.0	2.16	0.06	430.0	5.11
400.0	0.86	0.03	435.0	5.03
430.0	0.81	0.03	440.0	4.93
450.0	0.81	0.03	445.0	4.87
470.0	0.80	0.03	448.0	4.85
510.0	0.80	0.03	450.0	4.83
580.0	1.48	0.26	455.0	4.81
610.0	3.03	1.32	460.0	4.80
625.0	6.05	2.32	465.0	4.81
640.0	11.26	2.70	470.0	4.82
700.0	32.58	2.46	480.0	4.80
760.0	53.15	4.33	500.0	4.91
1200.0	51.38	2.35	510.0	4.99

P.O. Box 350166, Brooklyn, New York 11235-0003 (718) 934-4500 Fax (718) 332-4661 The Design Engineers Search Engine Provides ACTUAL Data Instantly at minicircuits.com

IF/RF MICROWAVE COMPONENTS

For detailed performance specs & shopping online see web site

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