

# Bandpass Filter

BPF-C75+

50Ω 60 to 90 MHz

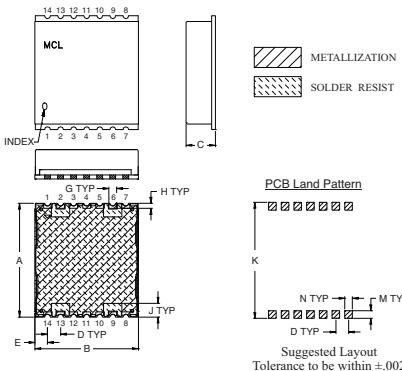
**Maximum Ratings**

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.

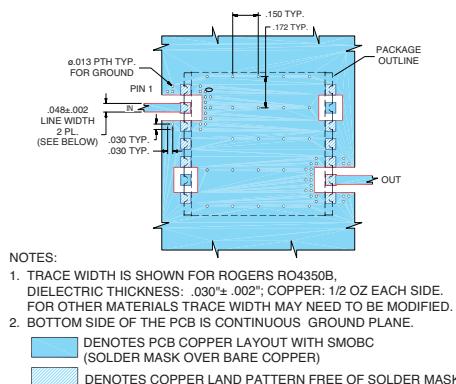
**Pin Connections**

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**

- High rejection
- Good VSWR, 1.2:1 typ @ passband
- Shielded case
- Aqueous washable



CASE STYLE: HU1186

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

**+RoHS Compliant**

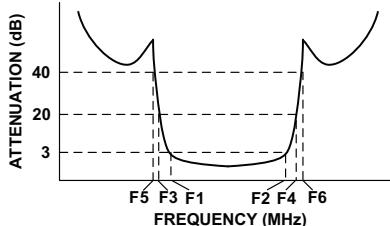
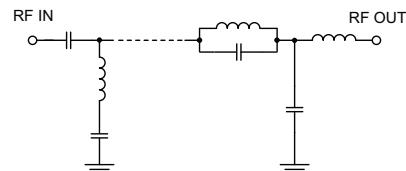
The +Suffix identifies RoHS Compliance. See our web site for RoHS Compliance methodologies and qualifications

**Applications**

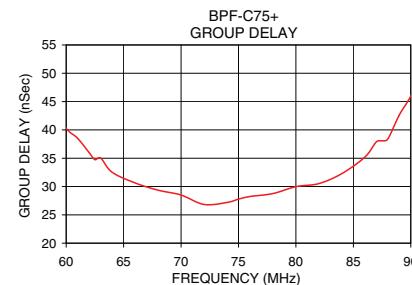
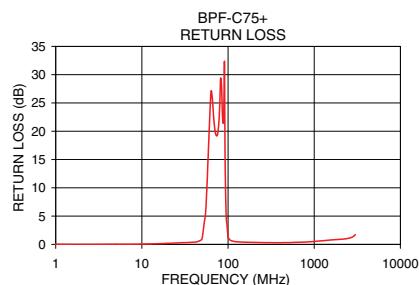
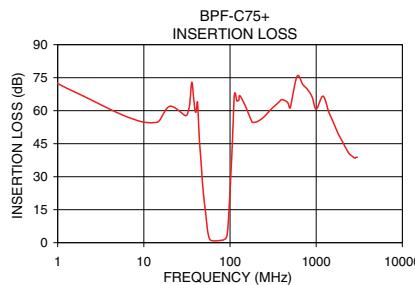
- Industrial microwave and RF
- Receivers / transmitters
- Harmonic rejection

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

CENTER FREQ. (MHz) Fc	PASSBAND (MHz) (Loss < 3dB) F1 - F2	STOPBANDS (MHz)				VSWR (:1)		
		F3	F4	F5	F6	Passband Typ.	Stopband Max.	Typ.
75	60 - 90	46	102	42	108 - 1800	1.2	1.6	18

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

Frequency (MHz)	Insertion Loss (dB) $\bar{x}$	Return Loss (dB) $\sigma$	Frequency (MHz)	Group Delay (nSec)
0.5	79.67	1.09	60.0	40.28
42.0	63.82	3.90	62.0	35.98
46.0	37.45	5.83	64.0	32.52
53.0	11.02	3.22	66.0	30.64
55.0	5.30	2.56	68.0	29.36
57.0	2.41	1.17	70.0	28.50
60.0	1.06	0.16	72.0	26.84
66.0	0.83	0.05	74.0	27.19
75.0	0.95	0.04	75.0	27.77
80.0	1.10	0.05	76.0	28.24
90.0	2.09	0.09	78.0	28.76
93.0	4.17	0.46	80.0	29.98
95.0	8.13	0.86	82.0	30.52
97.0	14.22	0.93	84.0	32.29
102.0	30.02	1.06	86.0	35.19
108.0	51.30	1.66	87.0	37.89
500.0	61.34	5.48	88.0	38.39
1800.0	49.59	0.61	90.0	45.97



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