

Bandpass Filter

BPF-A76+

50Ω 74 to 77 MHz

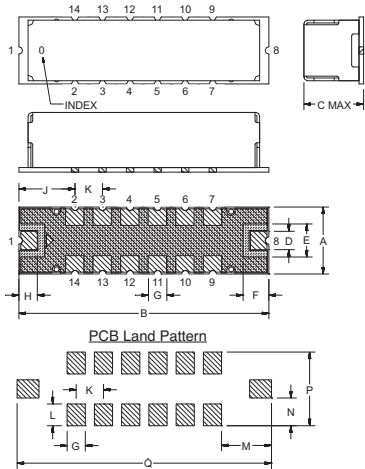
Maximum Ratings

Operating Temperature	-40°C to 85°C
Storage Temperature	-55°C to 100°C
RF Power Input	0.5W at 25°C

Pin Connections

RF IN	1
RF OUT	8
GROUND	2,3,4,5,6,7,9,10,11,12,13,14

Outline Drawing



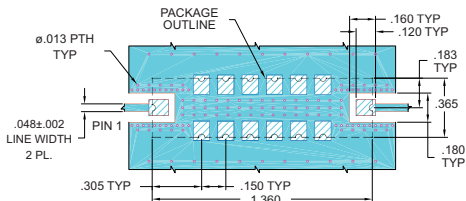
Suggested Layout
Tolerance to be within ±.002

METALLIZATION
SOLDER RESIST

Outline Dimensions (inch/mm)

A	B	C	D	E	F	G	H
.365	1.360	.35	.100	.180	.140	.100	.100
9.27	34.54	8.89	2.54	4.57	3.58	2.54	2.54
J	K	L	M	N	P	Q	wt.
.305	.150	.120	.275	.152	.405	1.400	grams
7.75	3.81	3.05	6.99	3.87	10.29	35.65	4.0

Demo Board MCL P/N: TB-363+
Suggested PCB Layout (PL-227)



NOTES:

- TRACE WIDTH IS SHOWN FOR FR4 WITH DIELECTRIC THICKNESS: .025" ± .002". COPPER: 1/2 OZ. EACH SIDE. FOR OTHER MATERIALS TRACE WIDTH MAY NEED TO BE MODIFIED.
 - BOTTOM SIDE OF THE PCB IS CONTINUOUS GROUND PLANE.
- DENOTES PCB COPPER LAYOUT WITH SMOBC (SOLDER MASK OVER BARE COPPER)
 DENOTES COPPER LAND PATTERN FREE OF SOLDER MASK

Features

- Good VSWR, 1.3:1 Typ @ Passband
- High Rejection
- Shielded case
- Aqueous washable

Applications

- Military Communications
- Harmonic Rejection
- Transmitters / Receivers



CASE STYLE: HQ1157
PRICE: \$29.95 ea. QTY (1-9)

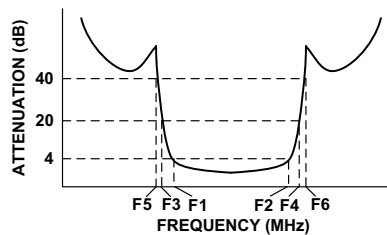
+ RoHS compliant in accordance with EU Directive (2002/95/EC)

The +Suffix has been added in order to identify RoHS Compliance. See our web site for RoHS Compliance methodologies and qualifications.

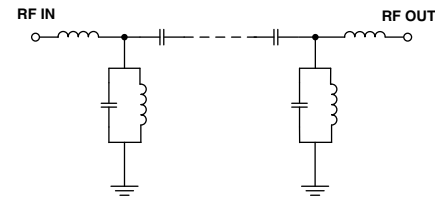
Bandpass Filter Electrical Specifications (T_{AMB} = 25°C)

CENTER FREQ. (MHz)	PASSBAND (MHz) (Loss < 4dB)	STOPBANDS (MHz)				VSWR (:1)		
		Loss > 20dB		Loss > 40dB		Passband		Stopband
F _c	F ₁ - F ₂	F ₃	F ₄	F ₅	F ₆	Typ.	Max.	Typ.
75.5	74 - 77	65	86	60	94 - 1000	1.3	1.8	20

Typical Frequency Response

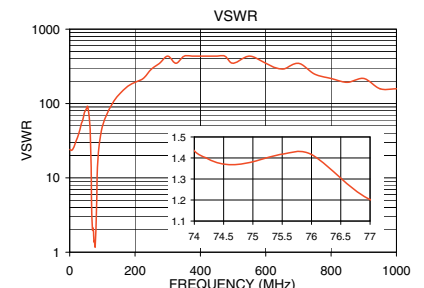
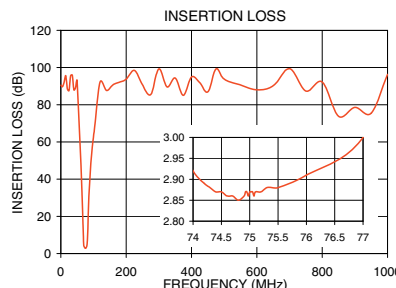


Functional Schematic



Typical Performance Data at 25°C

Frequency (MHz)	Insertion Loss (dB)	VSWR (:1)
0.5	90.50	24.14
60.0	55.22	66.82
65.0	31.16	20.22
68.0	15.22	2.93
69.0	9.91	2.34
70.0	4.60	1.97
74.0	2.92	1.43
75.0	2.87	1.38
75.5	2.88	1.42
76.0	2.91	1.42
77.0	3.00	1.20
80.0	4.20	1.78
82.0	9.85	3.69
84.0	21.80	10.75
86.0	30.91	16.89
94.0	52.87	36.20
500.0	93.71	347.44
1000.0	96.30	157.93



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