Metal Shield

Bandpass Filter

RBP-400+

50Ω 292 to 490 MHz

CASE STYLE: GP731
PRICE: $15.95 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.

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	2
RF OUT	6
GROUND	1, 3, 4, 5, 7, 8

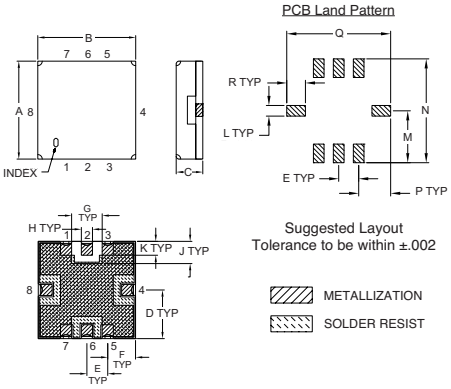
Features

- Good VSWR, 1.5:1 Typ @ Passband
- Small Size (0.35" X 0.35")
- Shielded case
- Aqueous washable

Applications

- Navigation
- Harmonic Rejection
- Transmitters/Receivers

Outline Drawing

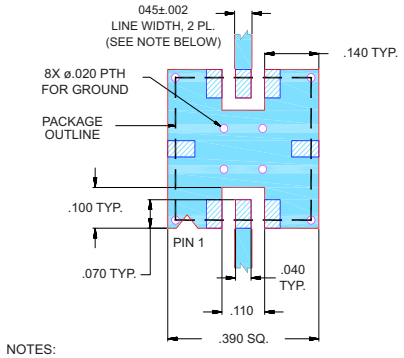


Outline Dimensions (inch / mm)

A	B	C	D	E	F	G	H	J
.350	.350	.100	.175	.075	.100	.110	.040	.080
8.89	8.89	2.54	4.45	1.93	2.54	2.79	1.02	2.03

K	L	M	N	P	Q	R	WT.
.050	.040	.195	.390	.120	.390	.070	GRAM
1.27	1.02	4.95	9.91	3.05	9.91	1.78	0.25

Demo Board MCL P/N: TB-332
Suggested PCB Layout (PL-176)



NOTES:

1. 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.
2. BOTTOM SIDE OF THE PCB IS CONTINUOUS GROUND PLANE.

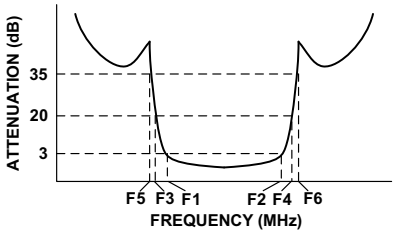
DENOTES PCB COPPER LAYOUT WITH SMOBC (SOLDER MASK OVER BARE COPPER)

DENOTES COPPER LAND PATTERN FREE OF SOLDER MASK

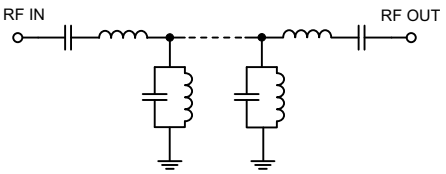
Bandpass Filter Electrical Specifications (T_{AMB}= 25°C)

CENTER FREQ. (MHz)	PASSBAND (MHz) (Loss < 3dB)	STOPBANDS (MHz)				VSWR (:1)		
		Loss > 20dB		Loss > 35dB		Passband		Stopband
Fc	F1 - F2	F3	F4	F5	F6	Typ.	Max.	Typ.
391	292 - 490	230	620	200	700 - 2000	1.5	2.3	18

Typical Frequency Response



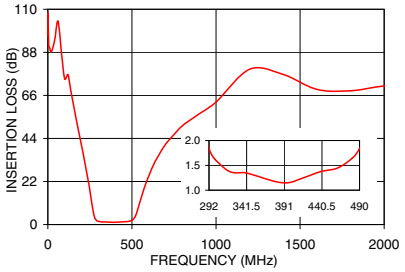
Functional Schematic



Typical Performance Data at 25°C

Frequency (MHz)	Insertion Loss (dB)	VSWR (:1)
0.3	96.06	1737.18
200.0	40.54	115.81
230.0	27.24	49.64
252.0	16.05	18.50
267.0	8.01	6.11
277.0	3.93	2.45
292.0	1.86	1.16
300.0	1.62	1.15
391.0	1.15	1.25
400.0	1.16	1.27
490.0	1.84	1.48
518.0	3.85	2.91
535.0	7.85	6.58
560.0	15.13	16.72
620.0	28.98	43.44
700.0	41.02	69.49
1400.0	76.67	86.86
2000.0	70.80	62.05

RBP-400+
INSERTION LOSS



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VSWR