

Bandpass Filter

50Ω 670 to 795 MHz
BPF-A730+


Generic photo used for illustration purposes only

CASE STYLE: HQ1157

Maximum Ratings

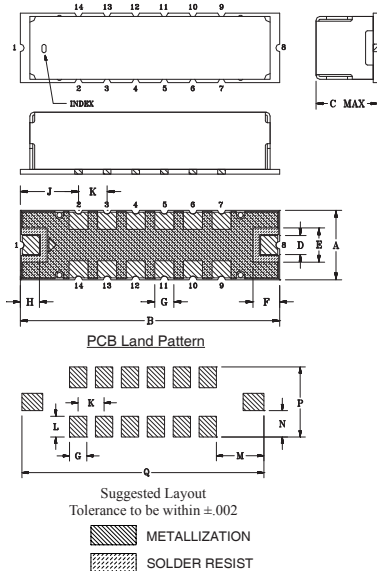
Operating Temperature	-40°C to 85°C
Storage Temperature	-55°C to 100°C
RF Power Input*	0.5W at 25°C

 *Passband rating, derate linearly to 0.25W at 100°C ambient.
 Permanent damage may occur if any of these limits are exceeded.

Pin Connections

RF IN	1
RF OUT	8
GROUND	2-7,9-14

Outline Drawing

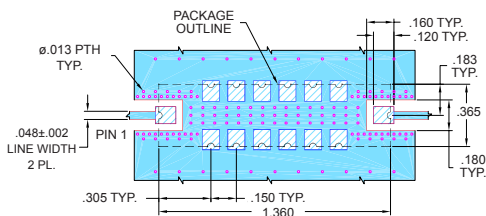


Outline Dimensions (inch/mm)

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	3.56	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	3.86	10.29	35.56	4.0

Note: Please refer to case style drawing for details

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

- High rejection
- Shielded case
- Aqueous washable

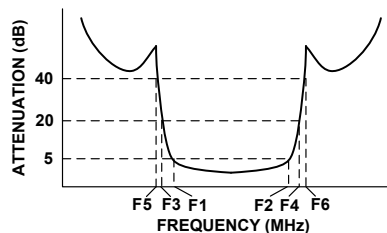
Applications

- Mobile TV (DVB)
- Harmonic rejection
- Transmitters/receivers

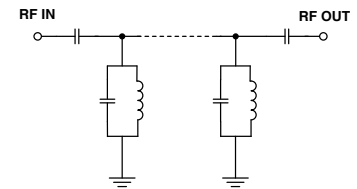
Bandpass Filter Electrical Specifications (T_{AMB} = 25°C)

CENTER FREQ. (MHz)	PASSBAND (MHz) (Loss < 5dB)	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.
730	670 - 795	610	910	575	1100 - 1800	1.5	2.3	20

Typical Frequency Response

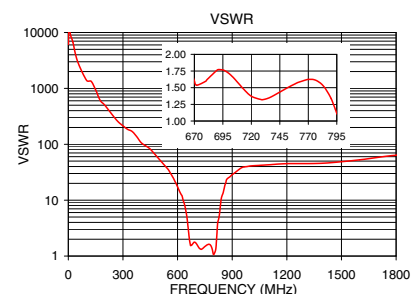
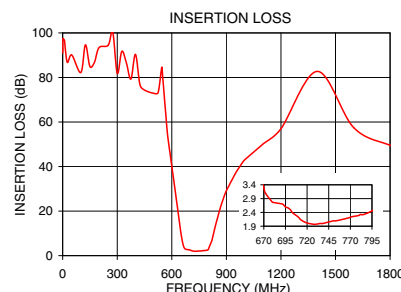


Functional Schematic



Typical Performance Data at 25°C

Frequency (MHz)	Insertion Loss (dB)	VSWR (:1)
0.5	92.82	6220.49
100.0	82.20	1395.51
300.0	81.87	214.15
575.0	55.60	25.50
610.0	34.24	14.57
640.0	16.18	7.93
655.0	7.72	3.94
670.0	3.30	1.60
700.0	2.51	1.72
730.0	1.97	1.32
770.0	2.23	1.62
795.0	2.45	1.12
810.0	4.72	1.35
820.0	6.77	3.83
840.0	13.45	10.65
910.0	30.74	30.16
1100.0	50.00	42.90
1800.0	49.55	63.65



Notes

- Performance and quality attributes and conditions not expressly stated in this specification document are intended to be excluded and do not form a part of this specification document.
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