

Bandpass Filter

BPF-A800+

50Ω 795 to 805 MHz

Maximum Ratings

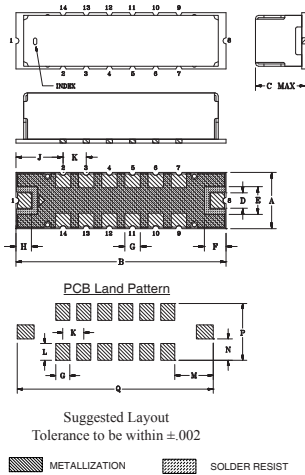
Operating Temperature	-40°C to 85°C
Storage Temperature	-55°C to 100°C
RF Power Input*	0.5W at 25°C

*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	2,3,4,5,6,7,9,10,11,12,13,14

Outline Drawing



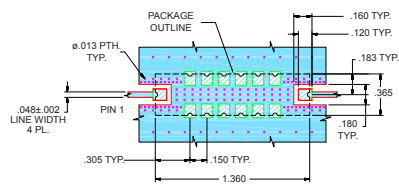
Outline Dimensions (inch/mm)

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

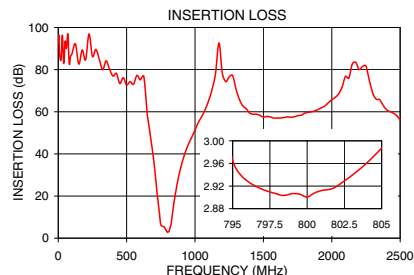
J	K	L	M	N	P	O	Wt.
.305	.150	.120	.275	.152	.405	1.400	grams
7.75	3.81	3.05	6.99	3.86	10.29	35.56	4.0

Note: Please refer to case style drawing for details

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



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



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.
- Electrical specifications and performance data contained in this specification document are based on Mini-Circuit's applicable established test performance criteria and measurement instructions.
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Features

- Linear phase, up to ±0.3 deg typ @ $F_c \pm 7.5$ MHz
- Good VSWR, 1.3:1 typ @ passband
- High rejection
- Shielded case
- Aqueous washable

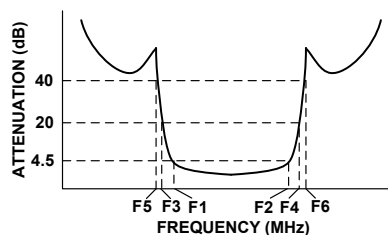
Applications

- Military radio
- Harmonic rejection
- Transmitters/receivers

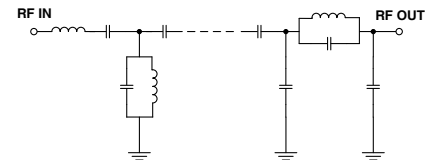
Bandpass Filter Electrical Specifications ($T_{AMB} = 25^\circ\text{C}$)

CENTER FREQ. (MHz)	PASSBAND (MHz) (Loss < 4.5dB)	STOPBANDS (MHz)				MAXIMUM DEVIATION FROM LINEAR PHASE (deg.) Fc ± 7.5MHz	VSWR (:1)		
		Loss > 20dB		Loss > 40dB			Passband		Stopband
		F3	F4	F5	F6		Typ.	Max.	Typ.
800	795 - 805	700	900	660	1000-2500	±1	1.3	1.8	20

Typical Frequency Response

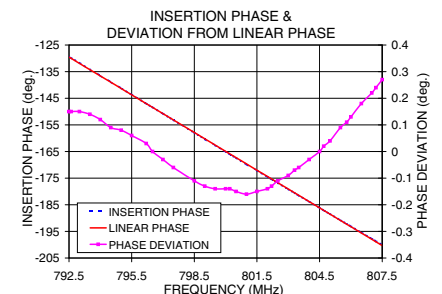
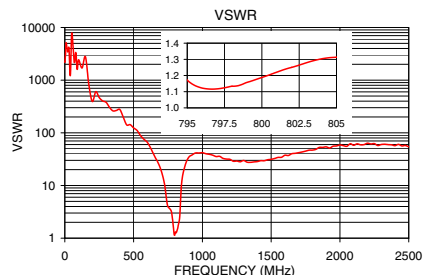


Functional Schematic



Typical Performance Data at 25°C

Frequency (MHz)	Insertion Loss (dB)	VSWR (:1)	Frequency (MHz)	Deviation from Linear Phase (deg.)
0.5	92.80	2173.44	792.5	0.15
300	84.93	379.70	793.0	0.15
660	54.83	32.89	793.5	0.14
700	35.84	19.27	794.0	0.12
725	20.14	10.67	795.0	0.08
740	11.89	5.27	796.0	0.05
775	5.28	3.17	797.0	-0.03
795	2.97	1.17	798.0	-0.06
798	2.91	1.13	799.0	-0.13
800	2.90	1.19	800.0	-0.14
802	2.92	1.25	801.0	-0.16
805	2.99	1.31	802.0	-0.14
820	5.55	1.53	803.0	-0.09
835	11.43	2.52	803.5	-0.06
850	18.46	11.66	804.0	-0.03
900	34.54	34.18	805.0	0.04
1000	51.34	42.01	806.0	0.13
2500	56.18	54.41	807.5	0.27



www.minicircuits.com P.O. Box 350166, Brooklyn, NY 11235-0003 (718) 934-4500 sales@minicircuits.com

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