

Bandpass Filter

SXBP-162+

50Ω 155 to 169 MHz

Maximum Ratings

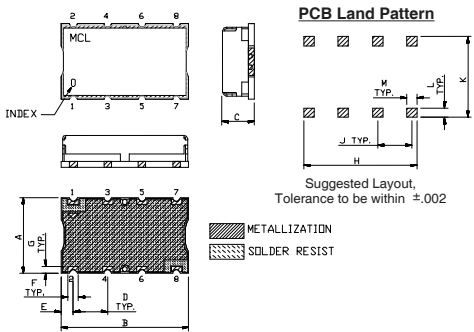
Operating Temperature	-40°C to 85°C
Storage Temperature	-55°C to 100°C
RF Power Input	0.5W Max

Permanent damage may occur if any of these limits are exceeded.

Pin Connections

INPUT	1
OUTPUT	8
GROUND	2, 3, 4, 5, 6, 7

Outline Drawing

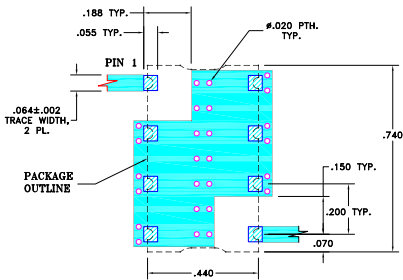


Outline Dimensions (inch/mm)

A	B	C	D	E	F
.44	.74	.27	.200	.07	.060
11.18	18.80	6.86	5.08	1.78	1.52
G	H	J	K	L	M
.040	.660	.200	.470	.055	.060
1.02	16.76	5.08	11.94	1.40	1.52

Note: Please refer to case style drawing for details

Demo Board MCL P/N: TB-368 Suggested PCB Layout (PL-230)



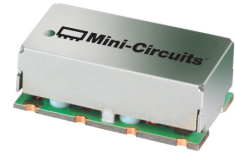
- NOTE:
- TRACE WIDTH IS SHOWN FOR FR4 WITH DIELECTRIC THICKNESS: .025"±.002". COPPER: 1/2 OZ. EACH SIDE. FOR OTHER MATERIALS TRACE WIDTH MAY NEED TO BE MODIFIED.
 - BOTTOM SIDE OF THE PCB IS CONTINUOUS GROUND PLANE.
- DENOTES PCB COPPER LAYOUT WITH SMOBC (SOLDER MASK OVER BARE COPPER)
 - DENOTES COPPER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

Features

- excellent rejection
- flat group delay @ passband
- good VSWR, 1.15:1 typ. @ passband

Applications

- receivers / transmitters
- industrial communications



Generic photo used for illustration purposes only
CASE STYLE: HF1139

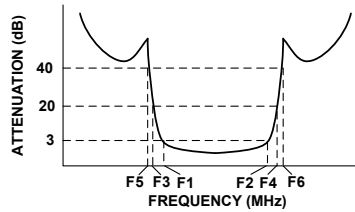
+RoHS Compliant

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

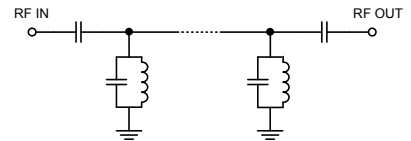
Bandpass Filter Electrical Specifications (T_{AMB} = 25°C)

CENTER FREQ. (MHz)	PASSBAND (MHz) (Loss < 3dB) F1 - F2	STOPBANDS (MHz)				VSWR (:1)	
		Loss > 20dB		Loss > 40dB		Passband Max.	Stopband Typ.
		F3	F4	F5	F6		
162	155 - 169	138	200	127	280 - 1600	1.6	20

Typical Frequency Response

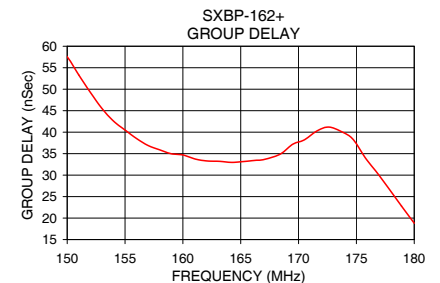
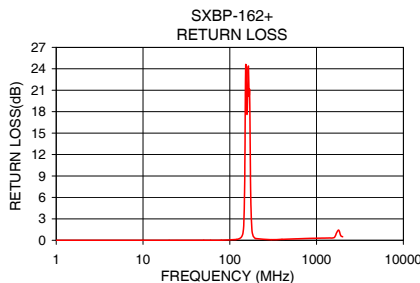
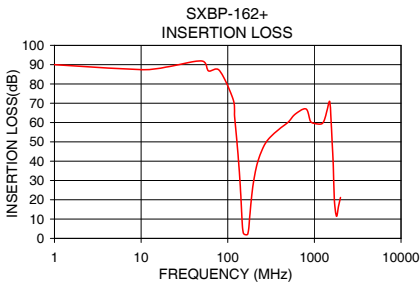


Functional Schematic



Typical Performance Data at 25°C

Frequency (MHz)	Insertion Loss (dB)		Return Loss (dB)	Frequency (MHz)	Group Delay (nSec)
	\bar{x}	σ			
0.3	91.44	6.36	0.00	150.0	57.53
127.0	51.02	0.97	0.20	152.0	49.26
138.0	30.32	1.08	0.56	154.0	42.59
144.0	15.76	1.45	1.66	155.0	40.50
147.0	7.97	1.38	4.50	156.0	38.52
149.0	4.46	0.74	9.93	158.0	35.89
155.0	2.15	0.06	19.50	160.0	34.70
162.0	1.86	0.04	23.33	162.0	33.30
169.0	2.09	0.11	21.10	164.0	32.96
174.0	4.39	0.60	6.77	166.0	33.44
178.0	9.25	0.75	2.21	167.0	33.63
185.0	18.09	0.55	0.68	168.0	34.87
200.0	30.23	0.29	0.24	169.0	37.19
280.0	50.05	0.14	0.10	171.0	38.21
400.0	56.89	0.29	0.14	173.0	41.19
800.0	67.07	1.31	0.26	175.0	38.37
1200.0	59.27	0.90	0.31	178.0	26.51
1600.0	50.36	1.12	0.39	180.0	18.81




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.
- The parts covered by this specification document are subject to Mini-Circuits standard limited warranty and terms and conditions (collectively, "Standard Terms"); Purchasers of this part are entitled to the rights and benefits contained therein. For a full statement of the Standard Terms and the exclusive rights and remedies thereunder, please visit Mini-Circuits' website at www.minicircuits.com/MCLStore/terms.jsp



Looking for pricing, stock, or lifecycle information?

Click below to explore more details on WIN SOURCE:

 [View SXBP-162+ on WIN SOURCE](#)

 [Mini-Circuits Information](#)

Optimize Your Supply Chain with WIN SOURCE Solutions

-  Global Sourcing Solution
-  Obsolete Management
-  Cost Control Management
-  Shortage Management
-  Alternative Solution
-  Excess Inventory Management