

# Bandpass Filter

## SXBP-162+

50Ω 155 to 169 MHz

### Maximum Ratings

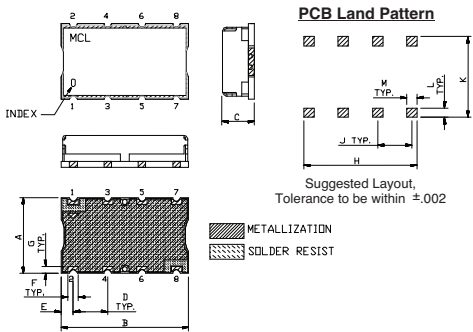
Operating Temperature	-40°C to 85°C
Storage Temperature	-55°C to 100°C
RF Power Input	0.5W Max

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

### Pin Connections

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

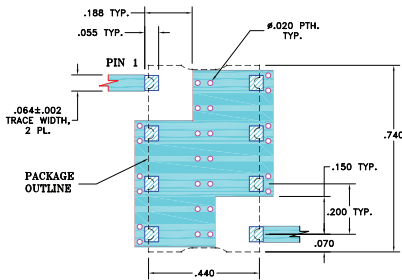
### Outline Drawing



### Outline Dimensions (inch/mm)

Dimension	Value (inch)	Value (mm)
A	.44	11.18
B	.74	18.80
C	.27	6.86
D	.200	5.08
E	.07	1.78
F	.060	1.52
G	.040	1.02
H	.660	16.76
J	.200	5.08
K	.470	11.94
L	.055	1.40
M	.060	1.52
wt.		grams
		3.0

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

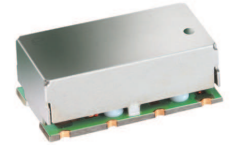


### Features

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

### Applications

- receivers / transmitters
- industrial communications



CASE STYLE: HF1139  
PRICE: \$15.95 ea. QTY (1-9)

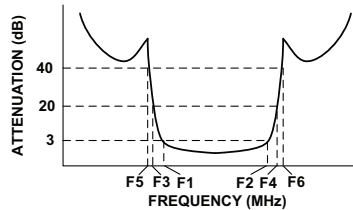
### +RoHS Compliant

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

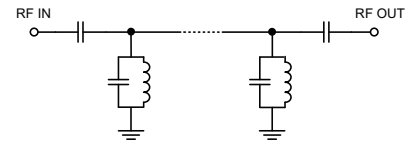
### Bandpass Filter Electrical Specifications (T<sub>AMB</sub> = 25°C)

CENTER FREQ. (MHz)	PASSBAND (MHz) (Loss < 3dB) F1 - F2	STOPBANDS (MHz)				VSWR (:1)	
		Loss > 20dB F3	Loss > 40dB F4	Loss > 40dB F5	Loss > 40dB F6	Passband Max.	Stopband Typ.
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)
	$\bar{x}$	$\sigma$			
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

