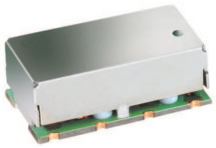
Surface Mount

Bandpass Filter

SXBP-350+

50Ω 330 to 375 MHz



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

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

Features

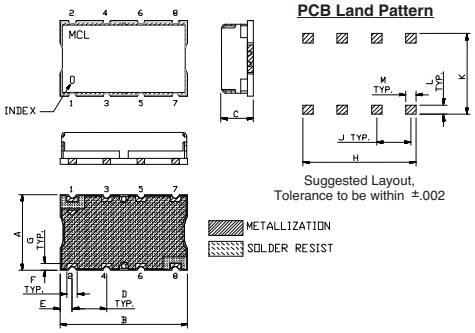
- high rejection
- flat group delay @ passband
- good VSWR, 1.2:1 typ @ passband
- shielded case
- aqueous washable

Applications

- radio link
- receivers / transmitters
- harmonic rejection

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

Outline Drawing

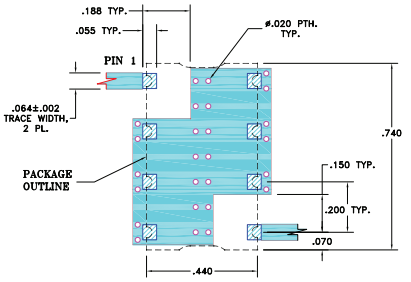


Outline Dimensions (inch / mm)

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	wt.
.040	.660	.200	.470	.055	.060	grams
1.02	16.76	5.08	11.94	1.40	1.52	3.0

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



NOTE:
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.

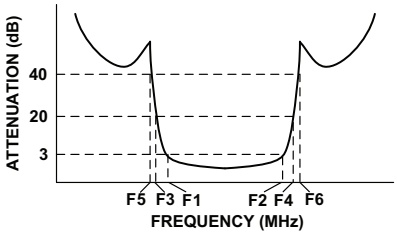
DENOTES PCB COPPER LAYOUT WITH SMOBC (SOLDER MASK OVER BARE COPPER)

DENOTES COPPER LAND PATTERN FREE OF SOLDER MASK

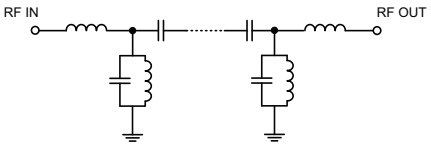
Bandpass Filter Electrical Specifications (T_{AMB}= 25°C)

CENTER FREQ. (MHz)	PASSBAND (MHz) (Loss < 3dB)	STOPBANDS (MHz)				VSWR (:1)		
		Loss > 20dB		Loss > 40dB		Passband		Stopband
Fc	F1 - F2	F3	F4	F5	F6	Typ.	Max.	Typ.
350	330 - 375	280	435	245	520 - 2000	1.2	1.5	20

Typical Frequency Response



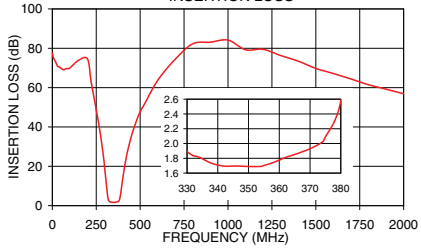
Functional Schematic



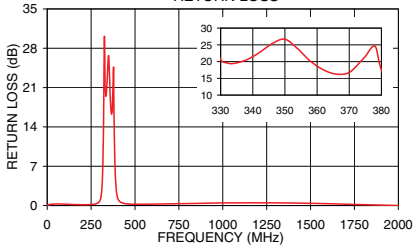
Typical Performance Data at 25°C

Frequency (MHz)	Insertion Loss (dB) $\bar{x}$	Insertion Loss (dB) σ	Return Loss (dB)	Frequency (MHz)	Group Delay (nSec)
0.5	77.48	2.27	0.24	330.0	16.58
245.0	51.21	0.45	0.22	332.0	15.81
280.0	32.44	0.51	0.29	334.0	15.15
300.0	17.62	0.71	1.01	338.0	14.32
310.0	8.62	0.78	3.07	342.0	13.74
315.0	4.82	0.59	6.57	346.0	13.33
320.0	2.74	0.32	15.40	350.0	13.10
330.0	1.89	0.19	17.22	354.0	12.98
342.0	1.69	0.20	22.55	355.0	12.96
350.0	1.69	0.19	26.48	358.0	12.91
366.0	1.87	0.19	19.67	362.0	12.89
375.0	2.09	0.18	23.06	366.0	13.20
385.0	4.07	0.24	11.76	370.0	13.78
392.0	7.99	0.31	5.74	375.0	15.23
405.0	16.28	0.29	2.56	378.0	16.30
435.0	30.23	0.18	1.21	380.0	16.90
520.0	50.91	0.07	0.55	385.0	17.12
2000.0	56.91	0.26	0.35	390.0	15.07

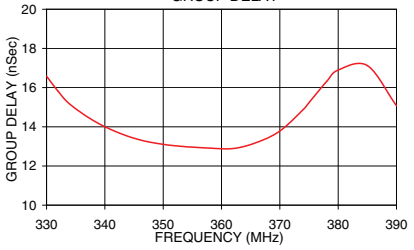
SXBP-350+
INSERTION LOSS



SXBP-350+
RETURN LOSS



SXBP-350+
GROUP DELAY



REV. OR
M119635
EDR-8868AU
SXBP-350+
URJ/RAV
121015