

Bandpass Filter

SXBP-1200+

50Ω 800 to 1800 MHz

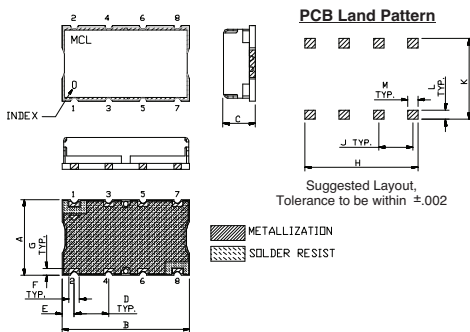
Maximum Ratings

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

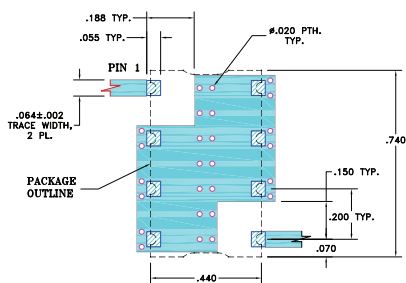
Outline Drawing



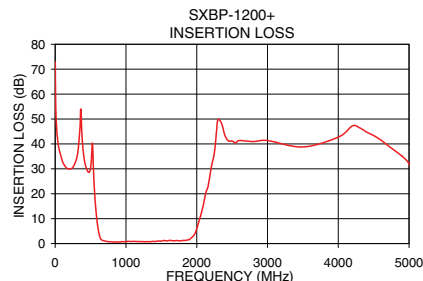
Outline Dimensions (inch/mm)

	A	B	C	D	E	F
	.44	.74	.19	.200	.07	.060
	11.18	18.80	4.83	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
	wt.					
	grams					
	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

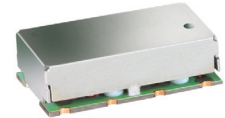


Features

- wideband, 800 to 1800 MHz
- flat group delay @ passband, 1 nsec typ.
- shielded case
- aqueous washable

Applications

- receivers/transmitters
- wireless communication systems
- harmonic rejection



CASE STYLE: HF1317
PRICE: \$17.95 ea. QTY (1-9)

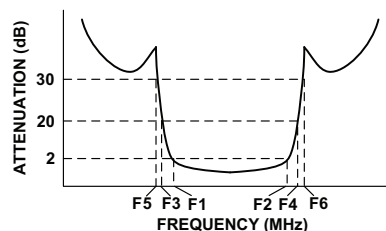
+RoHS Compliant

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

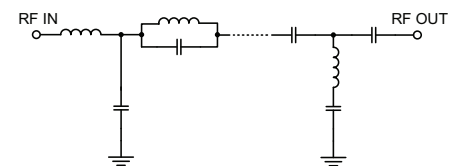
Bandpass Filter Electrical Specifications (T_{AMB} = 25°C)

CENTER FREQ. (MHz)	PASSBAND (MHz) (Loss < 2dB)	STOPBANDS (MHz)				VSWR (:1)		
		Loss > 20dB		Loss 30dB Typ.		Passband		Stopband
F _c	F ₁ - F ₂	F ₃	F ₄	F ₅	F ₆	Typ.	Max.	Typ.
1200	800 - 1800	535	2220	530	2250 - 5000	1.5	2.1	20

Typical Frequency Response

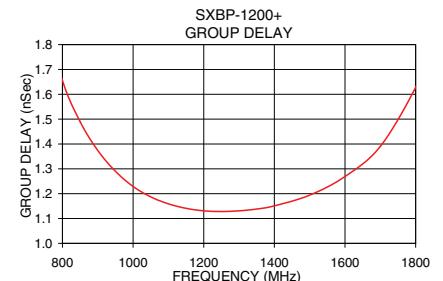
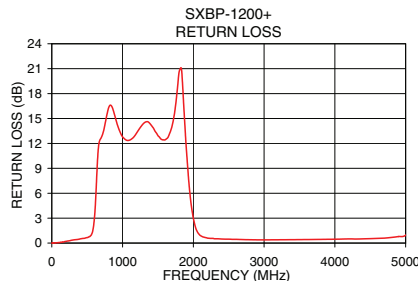


Functional Schematic



Typical Performance Data at 25°C

Frequency (MHz)	Insertion Loss (dB)		Return Loss (dB)	Frequency (MHz)	Group Delay (nSec)
	$\bar{x}$	σ			
1.0	72.93	0.47	0.00	800.0	1.66
530.0	38.97	2.80	0.49	850.0	1.49
535.0	34.49	2.93	0.51	900.0	1.37
570.0	15.37	0.93	0.88	950.0	1.29
600.0	7.18	0.56	2.18	1000.0	1.23
620.0	3.81	0.35	4.23	1050.0	1.19
650.0	1.61	0.13	8.35	1150.0	1.14
800.0	0.67	0.02	17.38	1200.0	1.13
1000.0	0.77	0.01	13.11	1250.0	1.13
1200.0	0.79	0.01	13.92	1300.0	1.13
1500.0	0.97	0.04	14.26	1350.0	1.14
1800.0	1.23	0.06	25.74	1400.0	1.15
1970.0	3.72	0.83	6.44	1500.0	1.19
2030.0	8.79	1.47	3.08	1600.0	1.27
2100.0	16.46	1.72	1.67	1650.0	1.32
2220.0	32.60	2.60	1.02	1700.0	1.39
2250.0	36.64	3.50	0.96	1750.0	1.48
5000.0	32.11	1.21	0.98	1800.0	1.63



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