

Bandpass Filter

SXBP-820+

50Ω 769 to 872 MHz

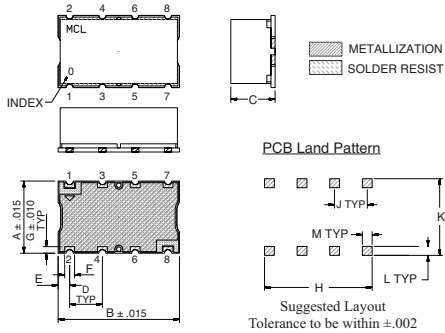
Maximum Ratings

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

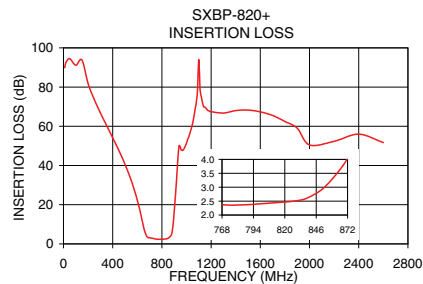
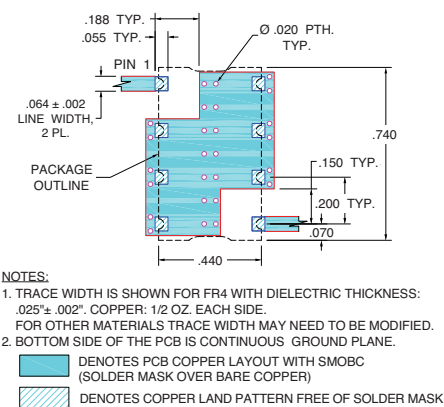
Outline Drawing



Outline Dimensions (inch/mm)

A	B	C	D	E	F
.440	.740	.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
					wt. grams
					3.0

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

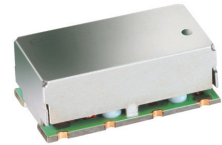


Features

- High Rejection
- Flat Group Delay
- Shielded case
- Aqueous washable

Applications

- Mobile TV
- Receivers / Transmitters
- Harmonic rejection



CASE STYLE: HF1139
PRICE: \$17.95 ea. QTY (1-9)

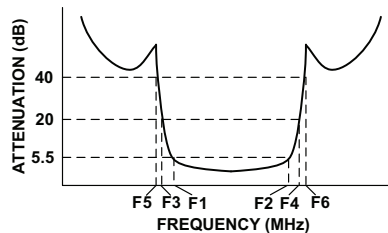
+ RoHS compliant in accordance with EU Directive (2002/95/EC)

The +Suffix has been added in order to identify RoHS Compliance. See our web site for RoHS Compliance methodologies and qualifications.

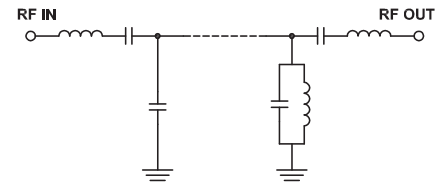
Bandpass Filter Electrical Specifications (T_{AMB} = 25°C)

CENTER FREQ. (MHz)	PASSBAND (MHz) (Loss < 5.5dB)	STOPBANDS (MHz)				VSWR (:1)		
		Loss > 20dB		Loss > 40dB		Passband		Stopband
F _c	F ₁ - F ₂	F ₃	F ₄	F ₅	F ₆	Typ.	Max.	Typ.
820	769 - 872	550	920	450	1000 - 2600	1.7	2.3	20

Typical Frequency Response

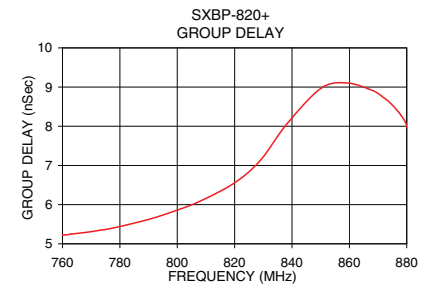
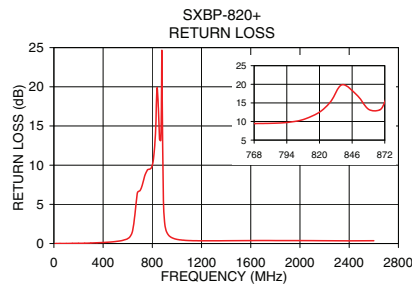


Functional Schematic



Typical Performance Data at 25°C

Frequency (MHz)	Insertion Loss (dB)		Return Loss (dB)	Frequency (MHz)	Group Delay (nSec)
	$\bar{x}$	σ			
10	89.91	3.72	0.01	760	5.22
100	91.17	3.09	0.01	766	5.27
450	47.71	0.32	0.18	769	5.30
550	32.51	0.37	0.46	772	5.33
619	17.67	0.77	0.88	778	5.41
640	11.85	0.92	1.63	790	5.62
658	6.91	0.76	3.61	799	5.83
769	2.37	0.19	9.46	808	6.09
799	2.40	0.13	9.95	820	6.56
820	2.47	0.11	12.51	829	7.13
850	2.90	0.28	17.04	838	8.04
872	4.05	0.30	15.27	850	8.96
880	5.13	0.54	19.23	859	9.11
890	9.27	1.73	5.58	868	8.91
900	16.48	2.56	2.71	872	8.73
920	33.32	3.78	1.36	874	8.61
1000	51.37	0.64	0.53	876	8.46
2600	51.67	0.63	0.36	880	8.01



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Page 1 of 1

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