Surface Mount
Bandpass Filter

50Ω 2050 to 2250 MHz

Features

- Wide bandwidth
- Better rejection
- Miniature shielded package

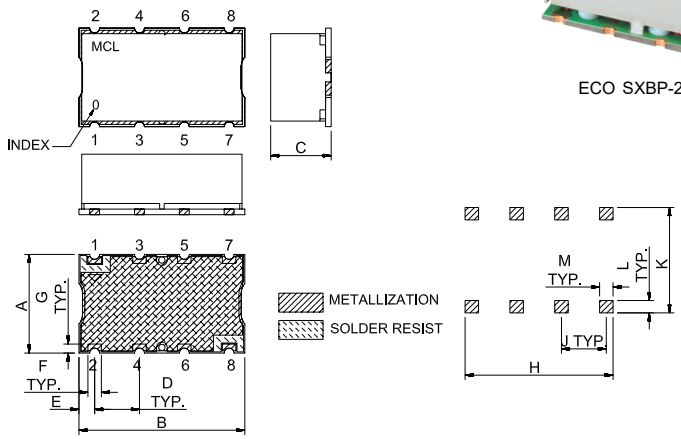
Applications

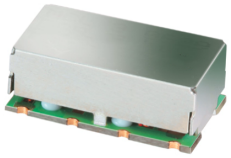
- Defense systems
- Fixed microwave
- IMT
- Auxiliary broadcasting
- Private and public land mobile

Pad Connections

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

Outline Drawing





ECO SXBP-2150+

Outline Dimensions (inch / mm)

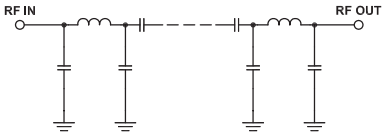
A	B	C	D	E	F	G
.44	.74	.27	.200	.07	.060	.040
11.18	18.80	6.86	5.08	1.78	1.52	1.02
H	J	K	L	M		wt
.660	.200	.470	.055	.060		grams
16.76	5.08	11.94	1.40	1.52		3.0

Note: Please refer to case style drawing for details

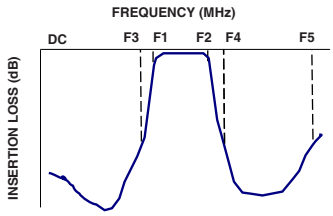
Maximum Ratings	
Operating Temperature	-40°C to 85°C
Storage Temperature	-55°C to 100°C
RF Power Input	6.3 W max.

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

Functional Schematic



Typical Frequency Response



Electrical Specifications at 25 C°

Parameter		F#	Frequency (MHz)	Min.	Typ.	Max.	Unit
Pass Band	Center Frequency	-	-	-	2150	-	MHz
	Insertion Loss	F1-F2	2050-2250	-	1.0	2.0	dB
	VSWR	F1-F2	2050-2250	-	1.3	2.3	:1
Stop Band, Lower	Insertion Loss	DC-F3	DC-950	20.0	30.0	-	dB
	VSWR	DC-F3	DC-950	-	20.0	-	:1
Stop Band, Upper	Insertion Loss	F4-F5	2675-5000	20.0	31.0	-	dB
	VSWR	F4-F5	2675-5000	-	20.0	-	:1

Typical Performance Data at 25°C

Frequency (MHz)	Insertion Loss (dB)	VSWR (:1)	Frequency (MHz)	Group Delay (nsec)
1	89.17	1737.18	2050	1.91
100	49.46	1737.18	2070	1.86
250	41.53	434.30	2080	1.85
850	30.91	96.51	2090	1.84
950	29.63	86.86	2100	1.84
1490	20.77	62.05	2110	1.84
1800	9.37	17.75	2120	1.85
1900	3.90	5.09	2130	1.86
1960	1.56	2.10	2140	1.88
2050	0.85	1.26	2150	1.90
2150	0.88	1.30	2160	1.92
2250	1.03	1.24	2170	1.94
2320	1.57	1.49	2180	1.97
2360	3.75	3.43	2190	2.00
2400	8.15	8.55	2200	2.02
2525	21.93	31.60	2210	2.06
2675	32.02	40.41	2220	2.10
3100	40.13	46.96	2230	2.14
4300	50.15	46.96	2240	2.19
5000	42.88	25.56	2250	2.26