Surface Mount
Bandpass Filter

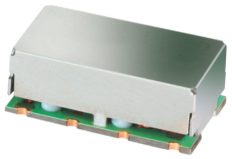
50Ω 1350 to 1650 MHz

Features

- Wide bandwidth
- Better rejection
- Miniature shielded package

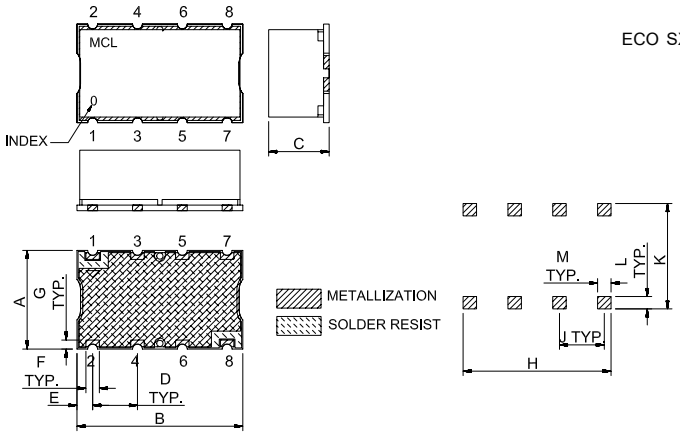
Applications

- Aviation and Aeronautical
- Digital audio broadcasting
- Maritime
- Mobile satellite
- Radio astronomy
- Wireless medical telemetry



ECO SXBP-1500+

Outline Drawing



Pad Connections

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

Outline Dimensions (inch / mm)

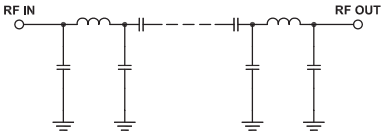
A	B	C	D	E	F	G
.44	.74	.27	.200	.07	.060	.040
11.18	18.80	6.86	5.08	1.78	1.52	1.02
H	J	K	L	M		wt
.660	.200	.470	.055	.060		grams
16.76	5.08	11.94	1.40	1.52		3.0

Note: Please refer to case style drawing for details

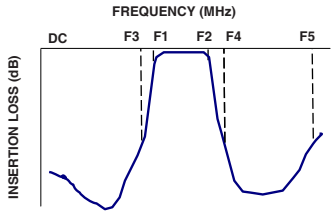
Maximum Ratings	
Operating Temperature	-40°C to 85°C
Storage Temperature	-55°C to 100°C
RF Power Input	4 W max.

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	-	-	-	1500	-	MHz
	Insertion Loss	F1-F2	1350-1650	-	0.6	2.0	dB
	VSWR	F1-F2	1350-1650	-	1.2	2.3	:1
Stop Band, Lower	Insertion Loss	DC-F3	DC-75	20.0	30.0	-	dB
	VSWR	DC-F3	DC-75	-	20.0	-	:1
Stop Band, Upper	Insertion Loss	F4-F5	2160-3700	20.0	29.0	-	dB
	VSWR	F4-F5	2160-3700	-	20.0	-	:1

Typical Performance Data at 25°C

Frequency (MHz)	Insertion Loss (dB)	VSWR (:1)	Frequency (MHz)	Group Delay (nsec)
1	68.25	1737.18	1350	1.34
20	42.08	1737.18	1360	1.33
75	30.62	1737.18	1380	1.32
150	24.62	579.06	1400	1.31
240	20.60	248.17	1420	1.33
400	16.25	96.51	1440	1.34
800	9.06	22.00	1450	1.34
1060	3.32	5.31	1460	1.35
1140	1.65	2.89	1480	1.38
1200	0.82	1.83	1500	1.41
1350	0.50	1.29	1520	1.44
1500	0.61	1.39	1540	1.47
1650	0.63	1.05	1560	1.51
1790	3.42	3.89	1580	1.57
1900	13.46	21.46	1600	1.62
1970	20.06	34.75	1610	1.65
2110	30.68	49.64	1620	1.68
2160	33.99	52.65	1630	1.71
3250	43.44	49.64	1640	1.75
3700	45.35	49.64	1650	1.79