

Surface Mount Bandpass Filter



50Ω 398 to 410 MHz

Features

- Flat group delay over passband
- High rejection, (50 dB typical)
- Shielded case
- Aqueous washable

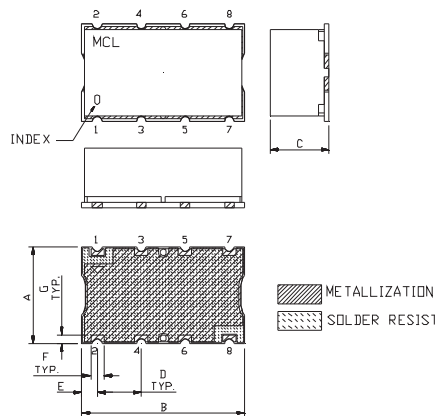
Applications

- Test equipments
- Receivers / transmitters
- Harmonic rejection
- Military

Pad Connections

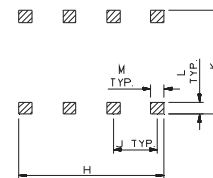
INPUT	1
OUTPUT	8
GROUND	2,3,4,5,6,7

Outline Drawing



ECO SXBP-404+

PCB Land Pattern



Outline Dimensions (inch mm)

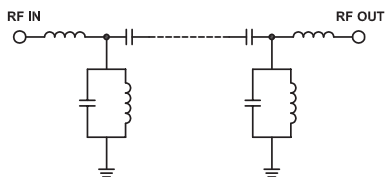
A	B	C	D	E	F	G
.44	.74	.27	.200	.07	.060	.040
11.18	18.80	6.86	5.08	1.78	1.52	1.02
H	J	K	L	M		wt
.660	.200	.470	.055	.060		grams
16.76	5.08	11.94	1.40	1.52		3.0

Maximum Ratings

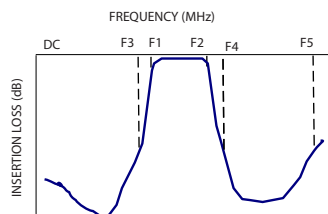
Operating Temperature	-40°C to 85°C
Storage Temperature	-55°C to 100°C
RF Power Input	0.25W max.

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	—	—	404	—	MHz
	Insertion Loss	F1-F2	—	4.1	5.5	dB
	VSWR	F1-F2	—	1.5	2.0	:1
Stop Band, Lower	Insertion Loss	DC-F3	20	31	—	dB
	VSWR	DC-F3	—	24	—	:1
Stop Band, Upper	Insertion Loss	F4-F5	20	32	—	dB
	VSWR	F4-F5	—	19	—	:1

Typical Performance Data at 25°C

Frequency (MHz)	Insertion Loss (dB)	VSWR (:1)	Frequency (MHz)	Group Delay (nsec)
1.0	83.12	133.63	398.00	28.98
326.0	67.26	108.58	399.00	28.55
350.0	50.91	66.82	400.00	28.22
370.0	32.52	25.94	401.00	27.95
379.0	20.75	10.25	402.00	27.73
386.0	9.82	2.50	402.50	27.64
393.0	4.96	1.58	403.00	27.56
398.0	4.12	1.50	403.50	27.48
404.0	3.69	1.16	404.00	27.42
410.0	3.84	1.09	404.50	27.36
420.0	6.24	2.26	405.00	27.31
426.0	12.13	5.66	405.50	27.29
445.0	32.95	25.94	406.00	27.27
500.0	62.04	78.97	406.50	27.26
700.0	85.57	124.09	407.00	27.27
1000.0	79.97	86.86	407.50	27.29
2000.0	64.54	59.91	408.00	27.33
3000.0	41.90	40.41	408.50	27.39
4000.0	44.13	26.74	409.00	27.46
4500.0	45.71	24.48	410.00	27.66

