

Low Pass Filter

50Ω DC to 420 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.

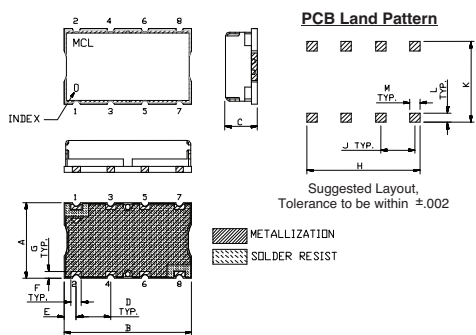
Pin Connections

INPUT 1

OUTPUT 8

GROUND 2, 3, 4, 5, 6, 7

Outline Drawing

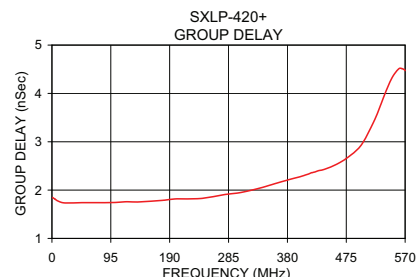
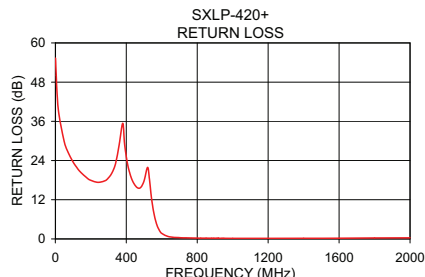
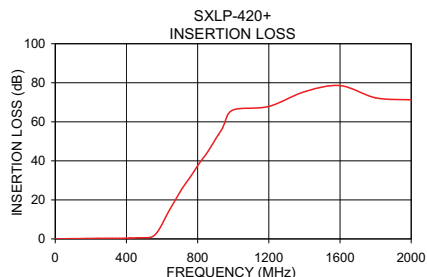
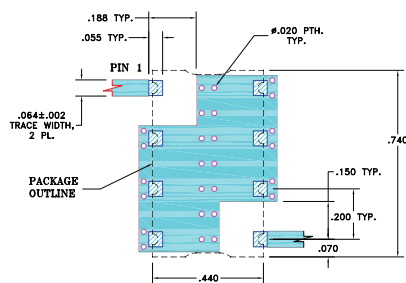


Outline Dimensions (inch mm)

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

Demo Board MCL P/N: TB-368

Suggested PCB Layout (PL-230)

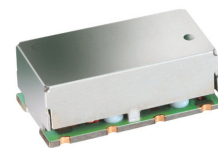


Features

- high rejection
- sharp cut-off
- shielded package
- aqueous washable
- low cost

Applications

- defense communications
- receivers / transmitters
- harmonic rejection



CASE STYLE: HF1139
PRICE: \$ 11.45 ea. QTY (1-9)

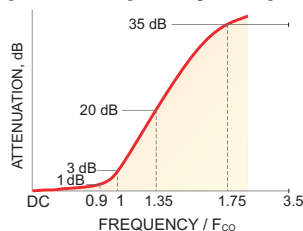
+RoHS Compliant

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

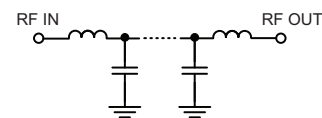
Low Pass Filter Electrical Specifications (T_{AMB} = 25°C)

PASSBAND (MHz)	f _{co} , MHz Nom.	STOPBAND (MHz)	VSWR (:1)
(Loss < 1dB)	(Loss 3dB)	(Loss > 20dB) (Loss > 35dB)	Passband Typ. Stopband Typ.
DC - 420	570	750 - 920 920 - 2000	1.7 18

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	0.01	0.00	1.0	1.85
5.0	0.02	0.00	5.0	1.81
20.0	0.04	0.00	10.0	1.77
70.0	0.09	0.00	20.0	1.74
180.0	0.22	0.01	50.0	1.74
420.0	0.41	0.02	70.0	1.74
530.0	0.71	0.02	100.0	1.74
550.0	1.28	0.08	140.0	1.75
570.0	2.92	0.14	200.0	1.82
600.0	7.45	0.17	240.0	1.83
640.0	14.59	0.22	300.0	1.94
750.0	30.94	0.36	360.0	2.13
920.0	54.26	0.85	400.0	2.27
1000.0	67.79	1.88	420.0	2.36
1200.0	70.39	1.78	480.0	2.70
1400.0	82.64	6.70	500.0	2.95
1600.0	76.83	1.97	530.0	3.75
1800.0	70.59	1.10	550.0	4.35
2000.0	68.34	1.77	570.0	4.47