

Low Pass Filter

50Ω DC to 190 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.

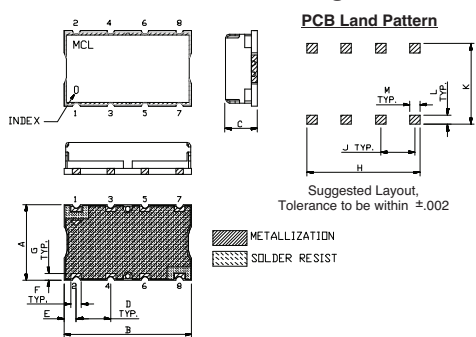
Pin Connections

INPUT 1

OUTPUT 8

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

Outline Drawing

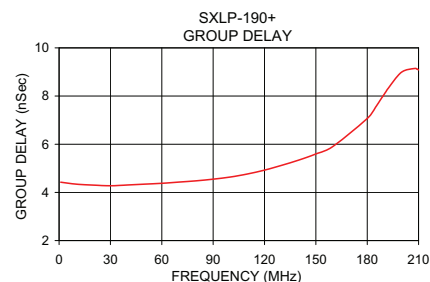
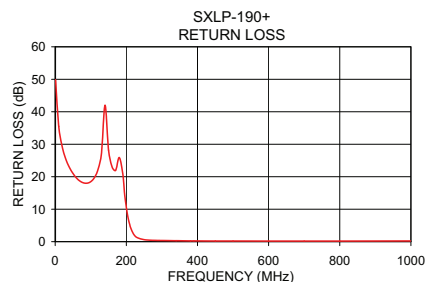
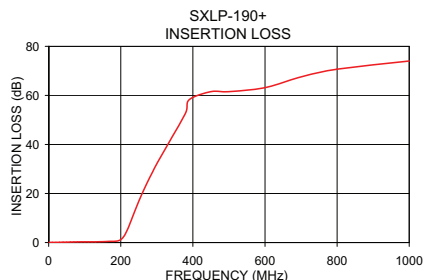
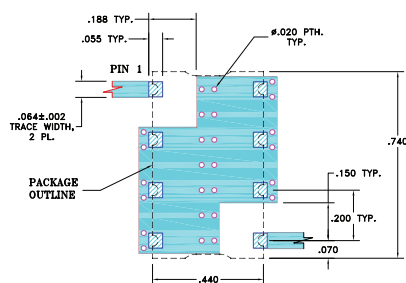


Outline Dimensions (inch mm)

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

Demo Board MCL P/N: TB-368

Suggested PCB Layout (PL-230)

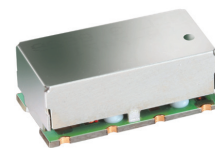


Features

- 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)

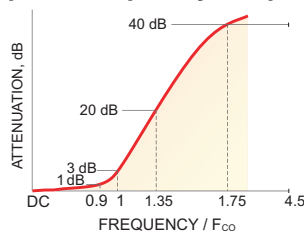
+RoHS Compliant

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

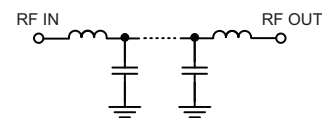
Low Pass Filter Electrical Specifications (T_{AMB} = 25°C)

PASSBAND (MHz)	f _{co} , MHz Nom.	STOPBAND (MHz)	VSWR (:1)
(Loss < 1dB)	(Loss 3dB)	(Loss > 20dB) (Loss > 40dB)	Passband Typ. Stopband Typ.
DC - 190	210	290 - 390 390 - 1000	1.4 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	0.04	0.01	1.0	4.42
20.0	0.08	0.01	10.0	4.34
50.0	0.17	0.01	20.0	4.30
120.0	0.29	0.01	30.0	4.28
140.0	0.33	0.00	50.0	4.34
190.0	0.63	0.01	60.0	4.38
200.0	1.17	0.03	80.0	4.48
210.0	2.79	0.09	90.0	4.55
220.0	5.74	0.15	100.0	4.64
230.0	9.45	0.22	110.0	4.76
250.0	16.95	0.26	120.0	4.92
290.0	29.35	0.34	130.0	5.12
390.0	55.75	2.14	140.0	5.34
500.0	65.57	4.10	150.0	5.60
600.0	68.15	5.42	160.0	5.91
700.0	75.50	5.06	180.0	7.07
800.0	71.08	3.29	190.0	8.08
1000.0	74.05	3.49	210.0	9.09