

Bandpass Filter

50Ω Elliptic Response 63 to 77 MHz

Maximum Ratings

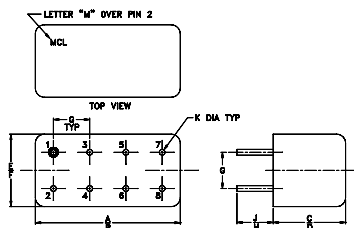
Operating Temperature	-55°C to 100°C
Storage Temperature	-55°C to 100°C
RF Power Input	0.5W max.

Pin Connections

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

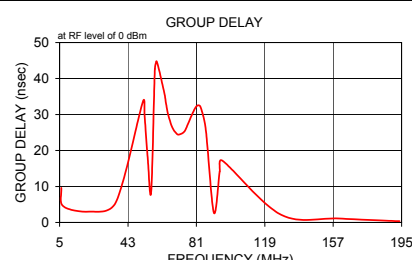
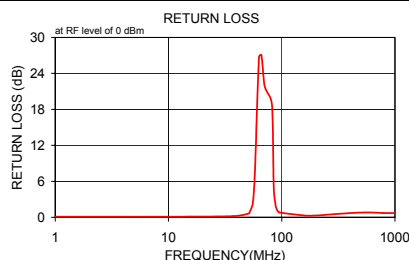
Demo Board MCL P/N: TB-305

Outline Drawing



Outline Dimensions (inch/mm)

A	B	C	D	E	F
.770	.800	.385	.400	.370	.400
19.56	20.32	9.78	10.16	9.40	10.16
G	H	J	K	wt	
.200	.20	.14	.031		grams
5.08	5.08	3.56	0.79		5.2



Features

- low insertion loss, 1.5 dB max.
- good selectivity, 1.76 typ. 20 dB/3 dB BW ratio
- rugged shielded case, hermetically sealed

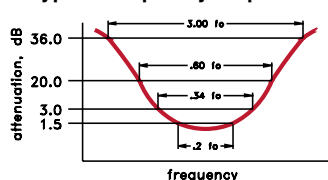
Applications

- military hi-rel systems
- high rejection applications
- image rejection
- IF signal processing

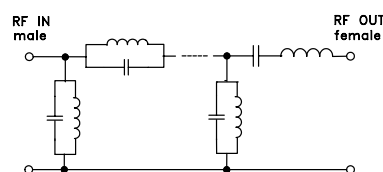
Bandpass Filter Electrical Specifications

MODEL NO.	CENTER FREQ. (MHz)	PASSBAND (MHz)	3dB BANDWIDTH (MHz)	STOPBANDS		VSWR (:1)	
		I.L. 1.5 dB Max.	Typ.	(I. loss > 20 dB) at MHz	(I. loss > 35 dB) at MHz	Passband Max.	Stopband Typ.
PBP-70(+)	70	63-77	58-82	51 & 94	6.0 & 193-1000	1.7	16

typical frequency response



electrical schematic



Typical Performance Data

Frequency (MHz)	Insertion Loss (dB)	Return Loss (dB)	Frequency (MHz)	Group Delay (nsec)
1.0	74.05	9.9	6.0	9.637
2.0	72.12	9.9	7.0	4.541
3.0	70.17	9.9	21.6	3.025
4.0	65.27	9.9	36.3	5.629
5.0	62.16	9.9	51.3	33.642
6.0	58.09	9.9	52.2	29.619
10.0	49.84	8.7	54.0	17.384
37.3	26.90	2.5	55.9	8.664
51.0	31.67	1.6	57.9	42.682
52.0	31.71	6.1	58.9	44.815
55.3	10.89	2.4	63.1	36.286
57.0	5.56	1.5	64.2	32.857
58.0	3.59	1.0	65.3	30.036
63.0	1.24	0.1	67.6	26.418
66.2	1.10	0.1	70.0	24.706
70.0	1.11	0.1	71.2	24.425
72.7	1.18	0.1	73.7	24.966
82.0	2.13	0.6	75.0	25.878
85.0	6.18	2.4	77.6	28.843
88.0	12.70	3.1	80.4	31.882
91.0	22.06	4.0	81.8	32.569
94.0	32.17	1.3	83.2	32.242
95.0	33.31	2.7	86.1	26.228
160.3	35.43	0.7	90.7	2.764
193.0	41.33	1.0	93.9	14.126
200.0	42.38	1.0	95.5	17.176
400.0	60.24	9.9	128.1	2.113
600.0	53.81	8.2	160.3	1.095
800.0	46.59	4.3	190.5	0.413
1000.0	42.50	2.9	193.9	0.375

