

Low Pass Filter

Features

- High rejection, 30 dB typical
- Sharp insertion loss roll-off
- Shielded case
- Aqueous washable

Applications

- Defence communications
- Transmitters / receivers
- Harmonic rejection

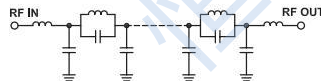
Electrical Specifications at 25°C

Parameter		F#	Frequency(MHz)	Min.	Typ.	Max.	Unit
Pass Band	Insertion Loss Freq. Cut-Off VSWR	DC-F1	DC-35	-	0.85	2	dB
		F2	40	-	3	-	dB
		DC-F1	DC-35	-	1.5	2	1
Stop Band	Rejection Loss VSWR	F3-F4	45-2500	20	30	-	dB
		F3-F4	45-2500	-	15	-	1

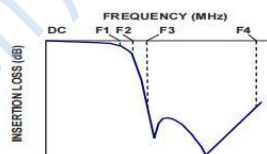
HT-LPF-B35+

50Ω DC to 35 MHz

Functional Schematic



Typical Frequency Response



Maximum Ratings

Operating Temperature -40°C to 85°C

Storage Temperature -55°C to 100°C

RF Power Input* 1 W max.

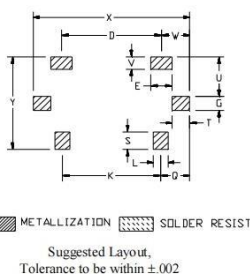
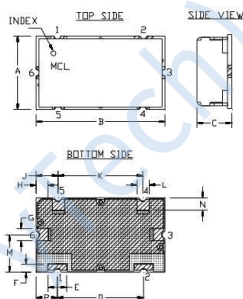
Permanent damage may occur if any of these limits are exceeded.

Pin Connections

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

Outline Drawing

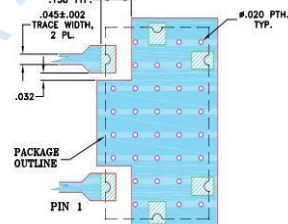
PCB Land Pattern



Outline Dimensions: Unit (mm)

A	11.99	B	20.98	C	5.59
D	14.00	E	3.00	F	1.19
G	1.98	H	1.93	J	3.61
K	13.79	L	1.98	M	5.99
N	2.01	P	3.51	Q	4.11
S	2.49	T	2.44	U	5.51
V	1.70	W	3.99	X	22.00
WT	6.0		Y	13.00	

Demo Board MCL P/N: TB-400+ Suggested PCB Layout (PL-247)



NOTES:

1. TRACE WIDTH IS SHOWN FOR FR4 WITH DIELECTRIC THICKNESS .002"±.000". COPPER: 1/2 OZ. EACH SIDE.
FOR OTHER MATERIALS TRACE WIDTH MAY NEED TO BE MODIFIED.
 2. BOTTOM SIDE OF THE PCB IS CONTINUOUS GROUND PLANE.
- DENOTES PCB COPPER LAYOUT WITH SMOBC (SOLDER MASK OVER BARE COPPER)
■ DENOTES COPPER LAND PATTERN FREE OF SOLDERMASK

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