

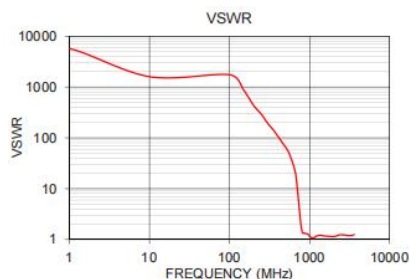


- low insertion loss, 0.3dB typ. @ passband
- high rejection
- shielded case
- aqueous washable

- transmitters / receivers
- sub-harmonic rejection
- military communications

STOP BAND (MHz)		FCO _i (MHz) Nom.	PASS BAND (MHz)	VSWR (:1)	
(Loss>40dB) (Loss>20dB)		(Loss 3dB)	(Loss<1dB)	Stopband Typ.	Passband Typ.
DC-350	DC-550	755	1200-3400	18	1.25

Frequency (MHz)	Insertion Loss (dB)	VSWR (:1)
1.0	87.30	5643.10
50	100.73	2988.16
100	90.37	1737.18
200	73.14	434.30
250	66.01	289.53
300	59.76	193.02
350	53.76	144.77
500	35.21	64.35
550	28.79	51.10
640	16.78	27.16
700	8.64	10.69
735	4.58	4.88
755	2.92	3.11
780	1.69	1.95
1200	0.54	1.16
2000	0.49	1.14
3000	0.57	1.21
3400	0.60	1.21



1. TRACE WIDTH IS SHOWN FOR FR4 WITH DIELECTRIC THICKNESS .025" ± .002"; 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 SOLDER MASK

A graph showing the attenuation (in dB) versus frequency for a low-pass filter. The y-axis is labeled 'ATTENUATION (dB)' and has markings at 40, 20, and 3. The x-axis is labeled 'FREQUENCY' and has markings for F_{co} and $F_{1.3dB}$. The curve starts at 40 dB, remains flat until F_{co} , then drops sharply to 3 dB at $F_{1.3dB}$.

The diagram shows a two-port network. The input port on the left is labeled "RF IN" and the output port on the right is labeled "RF OUT". The network consists of a series of components: a capacitor, a shunt inductor connected to ground, a dotted line representing a transmission line, another shunt inductor connected to ground, and a final capacitor. The two inductors are connected to a common ground line at the bottom.

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

Operating Temperature	-40°C to 85°C
Storage Temperature	-55°C to 100°C
RF Power Input	0.5W at 25°C

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

PCB Land Pattern

Suggested Layout, Tolerance to be within $\pm .002$

LEGEND:

- METALLIZATION
- SOLDER RESIST

A	8.89	B	8.89	C	2.54
D	4.45	E	1.93	F	2.54
G	2.79	H	1.02	J	2.03
K	1.27	L	1.02	M	4.95
N	9.91	P	3.05	Q	9.91
WT		0.25		R	1.78

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