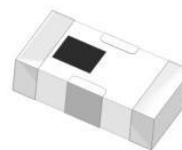


VMFLP-TDC/80M-SMT

FEATURES

- ♦ Pass band: DC~80 MHz
- ♦ Low Insertion Loss, Low Resistance, High Rejection, Temperature Stable
- ♦ 7 sections, LTCC construction with good Moisture, Corrosion Resistance, High Reliability
- ♦ Small size



TYPICAL APPLICATIONS

- ♦ Harmonic Rejection
- ♦ VHF/UHF Transmitters/Receivers
- ♦ Base Station of Mobile Communication, Lab Use.

ELECTRICAL SPECIFICATIONS

Electrical Specifications at 25°C. Measured on Characterization Test Board T-39.

Parameter		F#	Frequency (MHz)	Min.	Typ.	Max.	Unit
Pass Band	Insertion Loss	DC-F1	DC-80	-	0.9	1.2	dB
	Freq. Cut-Off	F2	140	-	3.0	-	dB
	VSWR	DC-F1	DC-80	-	1.2	1.5	-
Stop Band	Rejection Loss	F3	170	20	30	-	dB
		F4-F5	180-2500	25	30	-	dB
		F6	4500	20	23	-	dB
	VSWR	F3-F6	170-4500	-	20	-	-

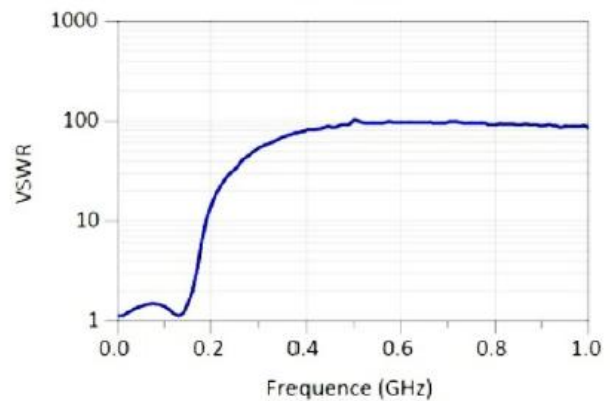
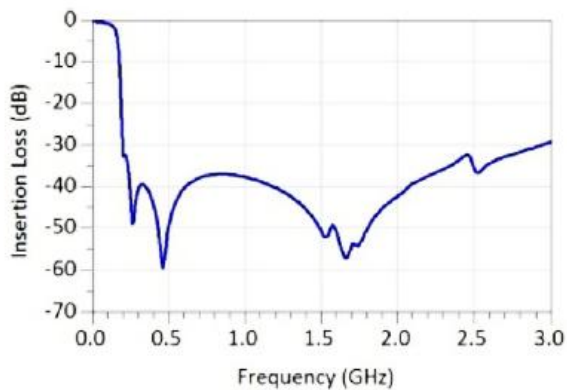
TYPICAL PERFORMANCE DATA

Test Conditions: Input Power = 0dBm @+25°C

Frequency (MHz)	Insertion Loss (dB)	VSWR
10	0.35	1.09
50	0.65	1.12
80	0.84	1.09
140	2.70	1.05
170	20.61	6.84
200	35.67	15.62
225	44.62	22.15
500	46.55	88.14
1000	46.10	145.17

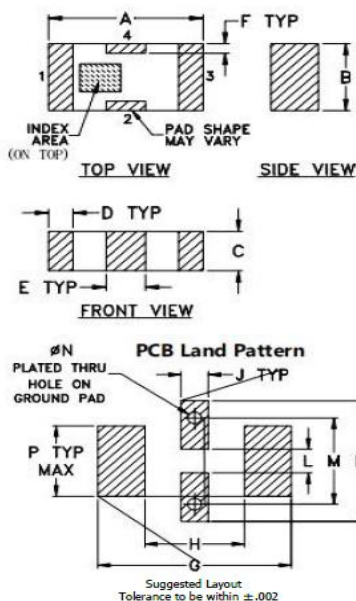
1550	42.26	170.10
2000	34.15	172.43
2500	29.42	146.20
3500	26.69	113.29
4500	20.81	55.64
5000	18.34	33.05

TYPICAL PERFORMANCE CURVES

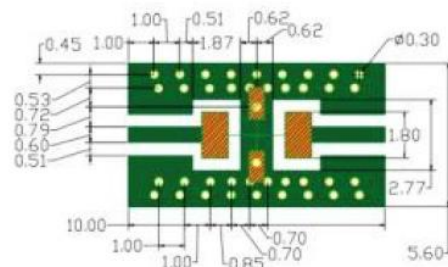


OUTLINE DRAWING AND LAYOUT

Outline Drawing



Demo Board MCL P/N: T-39 Suggested PCB Layout (PL-137)



- NOTES:**
1. COPLANAR WAVEGUIDE PARAMETERS ARE SHOWN FOR ROGERS R04350 WITH THICKNESS .508" $\pm$.0015".
COPPER: 1/2 OZ. EACH SIDE.
FOR OTHER MATERIALS TRACE WIDTH & GAP 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

Outline Dimensions: Unit (mm)

A	3.20	B	1.60	C	0.95
D	0.51	E	0.81	F	0.23
G	4.29	H	2.21	J	0.61
K	3.10	L	0.61	M	2.21
N	0.30	P	1.80	wt	0.02g