

VMMX-2M/500M-SMT

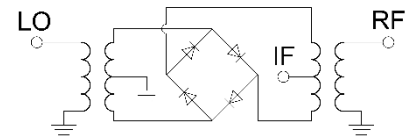
FEATURES

- ◆ Frequency Range: 2~500MHz
- ◆ Conversion Loss: 8dB Max.



TYPICAL APPLICATIONS

- ◆ Military
- ◆ Testing
- ◆ Commercial



ELECTRICAL SPECIFICATIONS

Zo=50 Ohm, LO=+3 dBm

Parameter	Conditions	Min.	Typ.	Max.	Unit
Frequency Range	-	2	-	500	MHz
Conversion Loss	2~500MHz	-	-	8	dB
Isolation (L-R)	2~500MHz	30	44	-	dB
Isolation (L-I)	2~500MHz	25	35	-	dB
P1dB	2~500MHz	-	0	-	dBm
IP3	2~500MHz	-	16	-	dBm

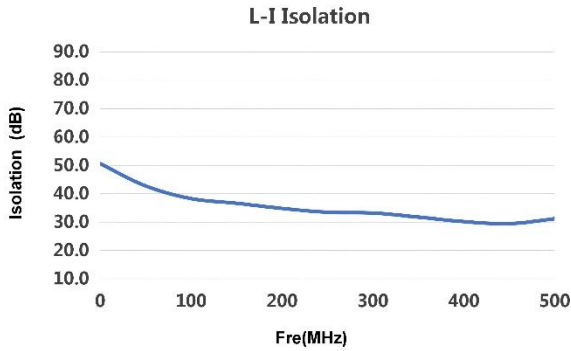
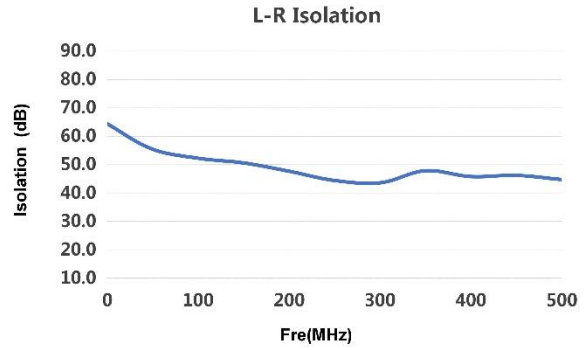
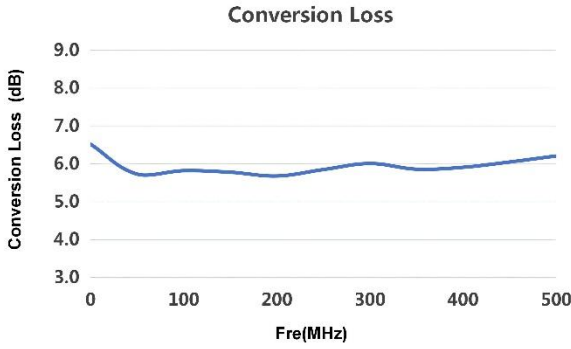
Notes:

- 1: Specifications guaranteed over the operating temperature range.
- 2: Touchstone format SNP file is available while it is necessary.

MAXIMUM RATINGS

Parameter	Min.	Max.	Unit
RF Power	-	0.05	Watt
DC Current	-	10	mA
Operating Temperature Range	-40	85	°C
Storage Temperature Range	-55	100	°C
Moisture Sensitivity Level	-	1	-

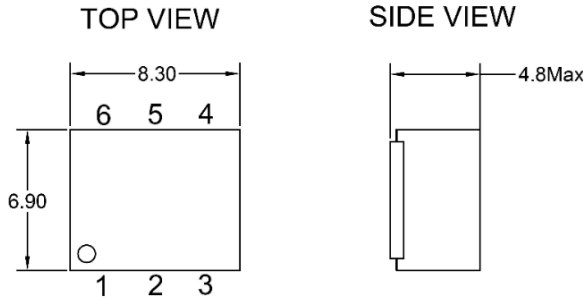
TYPICAL PERFORMANCE CURVES



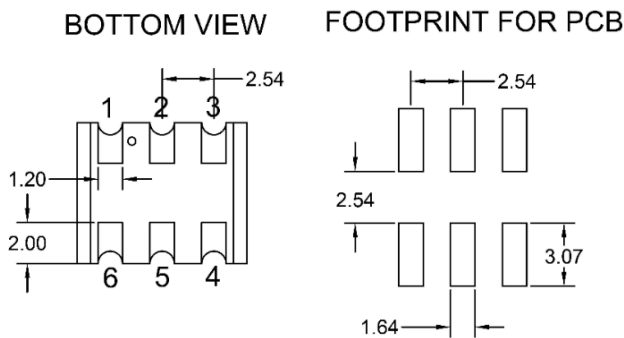
Typical Performance Data

Frequency (MHz)		Conversion Loss (dB)	Isolation L-R (dB)	Isolation L-I (dB)
RF	LO	LO(+3dBm)	LO(+3dBm)	LO(+3dBm)
2.00	32.00	6.52	64.32	50.57
30.00	60.00	5.92	58.61	46.39
60.00	90.00	5.66	55.38	42.72
90.00	120.00	5.78	53.29	40.32
120.00	150.00	5.73	52.21	38.25
150.00	180.00	5.71	50.56	36.60
180.00	210.00	5.69	50.08	35.34
210.00	240.00	5.72	47.63	34.79
240.00	270.00	5.83	44.12	34.29
270.00	300.00	5.74	44.38	33.43
300.00	330.00	6.05	43.56	33.16
330.00	360.00	5.82	47.21	32.03
360.00	390.00	5.89	47.82	31.75
390.00	420.00	5.92	45.77	30.18
420.00	450.00	6.08	43.29	29.71
450.00	480.00	6.06	46.18	29.46
480.00	510.00	6.22	45.12	30.12
500.00	530.00	6.25	44.69	31.18

OUTLINE DRAWING



PIN No.	Definition
3	IF
4	RF
6	LO (+3dBm)
1,2,5	GND



Notes:

- 1: Dimensions in mm.
- 2: Tolerance ± 0.3 mm unless otherwise noted.
- 3: 3D model in STEP format is available.