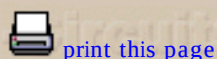


Frequency Mixers

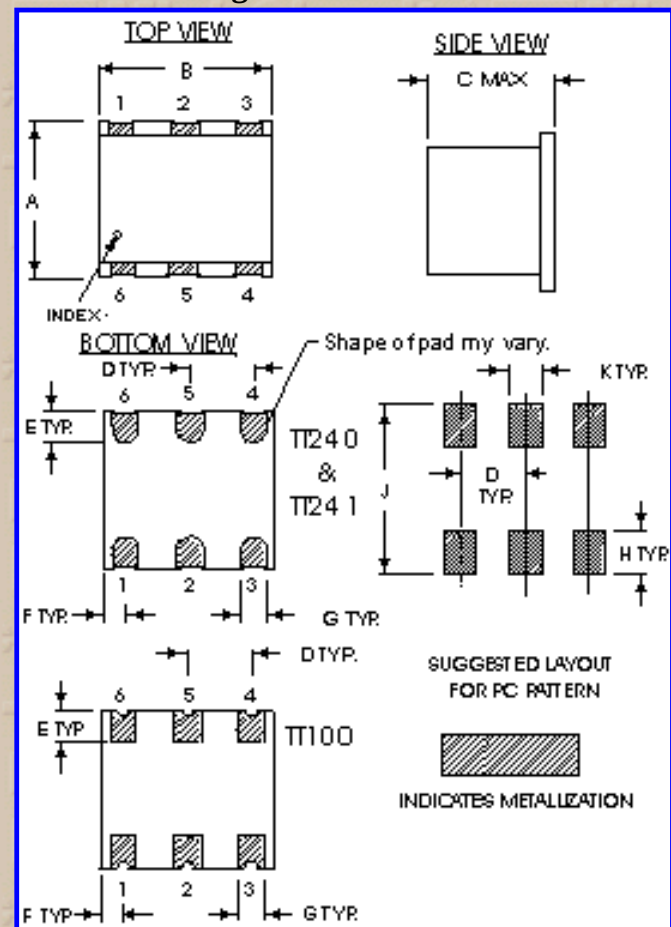


LO Power Level 7 dBm

Pin Configuration

Port	LO	RF	IF	Gnd Ext.	Case Gnd	Not Used
w	1	4	5	2,3,6	-	-

Outline Drawing



Case Style - TT240 (inch,mm) weight: 0.5 grams.

A	B	C	D	E	F	G	H	J
.250	.31	.20	.100	.050	.055	.040	.070	.270
6.350	7.874	5.080	2.540	1.270	1.397	1.016	1.778	6.858
K	L	M	N	P	Q	R	S	T
.050								
1.270								

Tolerance: .x ± .1 .xx ± .03 .xxx ± .015 inch.

Material and Finish:

Case material: ceramic. Terminations: solder plate over nickel. Board edges straight.

Packaging:

Notes:

- For Surface Mount Environmental Specifications, please click [here](#).
- General Quality Control Procedures and Environmental Specifications are given in [Mini-Circuits Guarantees Quality](#). Hi-Rel, MIL description are given in [Hi-Rel and MIL](#).
- Prices and Specifications subjects to change without notice.

RMS-1BM



Electrical Specifications

RMS-1BM

LO Power Level 7 dBm

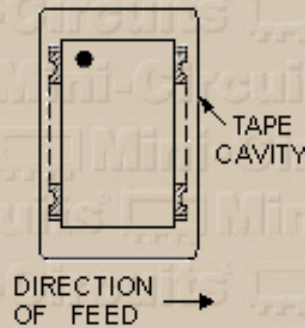
Frequency MHz		Max. Conversion Loss dB		Min. LO-RF Isolation dB			Min. LO-IF Isolation dB		
LO/RF	IF	Mid-Band	Total Range	L	M	U	L	M	U
5.00-600	DC-600	7.0	7.5	45	32	23	40	25	22

L=low range(f_L to $10f_L$) M=mid range($10f_L$ to $f_U/2$) U=upper range($f_U/2$ to f_U)

Typical Performance Data

RMS-1BM		Conversion Loss (dB)			ISO	Isolation L-R (dB)			Isolation L-I (dB)		
RF MHz	LO MHz	LO +4 dBm	LO +7 dBm	LO +10 dBm	LO (MHz)	LO +4 dBm	LO +7 dBm	LO +10 dBm	LO +4 dBm	LO +7 dBm	LO +10 dBm
2.000	32.000	6.44	6.15	6.06	2.000	76.36	77.45	78.57	61.46	62.05	62.37
4.000	34.000	6.24	5.93	5.84	4.000	76.01	77.30	78.72	61.31	61.60	61.92
5.000	35.000	6.20	5.89	5.82	5.000	75.18	76.89	78.20	61.28	61.49	61.60
10.000	40.000	6.24	5.90	5.79	10.000	71.36	74.36	77.17	60.46	60.26	59.90
20.000	50.000	6.17	5.87	5.77	20.000	66.06	69.48	73.30	57.66	56.77	56.07
50.000	80.000	6.26	5.90	5.81	50.000	58.75	62.05	65.98	51.88	50.51	49.44
100.000	70.000	6.19	5.85	5.77	100.000	51.91	55.01	58.44	46.87	45.08	44.04
101.730	71.733	6.21	5.87	5.79	101.730	51.82	55.00	58.41	46.80	44.99	43.91
200.000	170.000	6.12	5.82	5.76	200.000	44.72	46.91	49.09	41.98	40.52	39.41
201.470	171.467	6.12	5.83	5.77	201.470	44.65	46.83	48.96	41.78	40.31	39.24
301.200	271.200	6.22	5.81	5.76	301.200	40.17	42.24	43.95	37.77	36.71	35.57
351.070	321.067	6.18	5.79	5.74	351.070	38.48	40.24	41.71	35.63	34.89	33.94
375.000	345.000	6.19	5.79	5.73	375.000	38.02	39.86	41.46	34.69	34.22	33.37
400.930	370.933	6.11	5.74	5.69	400.930	37.46	39.23	40.69	34.11	33.67	32.76
500.000	470.000	6.24	5.85	5.75	500.000	35.94	37.51	38.57	30.47	30.15	29.95
500.670	470.667	6.24	5.84	5.76	500.670	35.90	37.49	38.55	30.49	30.16	29.93
600.400	570.400	6.24	5.98	5.74	600.400	34.35	36.08	37.07	28.72	29.20	28.65
700.130	670.133	6.66	6.31	6.15	700.130	32.13	33.78	34.96	25.77	27.21	28.17
725.070	695.067	6.78	6.49	6.24	725.070	31.86	33.46	34.58	25.18	26.43	27.38
750.000	720.000	6.88	6.55	6.29	750.000	31.63	33.11	34.29	24.61	25.85	27.10

UNIT ORIENTATION



Packaging information:
Tape Width(mm): 16
Reel Size(inches): 13
Device Cavity Pitch(mm): 12
Devices Per Reel: 500

RF/LO	VSWR RF port			VSWR LO port			IF	VSWR IF port			Ø detection		
FREQ. (MHz)	LO +4 dBm	LO +7 dBm	LO +10 dBm	LO +4 dBm	LO +7 dBm	LO +10 dBm	FREQ. (MHz)	LO +4 dBm	LO +7 dBm	LO +10 dBm	FREQ. MHz	max.DC output mV	DC offset mV
5.000	1.14	1.16	1.20	1.68	2.41	3.33	5.000	1.39	1.24	1.14	2.00	242.34	0.03
10.000	1.06	1.10	1.15	1.64	2.36	3.28	10.000	1.40	1.25	1.15	4.00	242.36	0.03
20.000	1.01	1.08	1.14	1.70	2.47	3.42	20.000	1.40	1.25	1.15	5.00	241.55	0.03
50.000	1.03	1.09	1.14	1.64	2.39	3.32	50.000	1.40	1.25	1.15	10.00	244.73	0.03
74.840	1.06	1.10	1.15	1.66	2.40	3.30	74.840	1.41	1.26	1.17	20.00	241.66	0.02
100.000	1.08	1.11	1.16	1.65	2.40	3.29	100.000	1.43	1.28	1.18	50.00	233.71	-0.03
144.690	1.14	1.15	1.19	1.66	2.41	3.26	144.690	1.47	1.32	1.23	79.38	231.96	-0.10
200.000	1.20	1.21	1.24	1.70	2.41	3.29	200.000	1.52	1.38	1.29	100.00	239.28	-0.17
214.530	1.22	1.23	1.25	1.68	2.36	3.19	214.530	1.54	1.39	1.31	182.55	241.57	-0.67
284.370	1.31	1.31	1.33	1.74	2.37	3.19	284.370	1.64	1.49	1.40	200.00	243.93	-0.77
354.220	1.40	1.39	1.41	1.78	2.32	3.06	354.220	1.72	1.58	1.50	285.72	238.36	-1.65
375.000	1.43	1.42	1.43	1.81	2.34	3.08	375.000	1.76	1.61	1.54	337.31	253.06	-2.09
424.060	1.49	1.49	1.49	1.90	2.46	3.27	424.060	1.81	1.67	1.58	375.00	259.54	-2.94
493.910	1.60	1.58	1.59	1.98	2.54	3.27	493.910	1.92	1.77	1.68	388.90	257.48	-3.25
500.000	1.61	1.59	1.60	2.00	2.56	3.32	500.000	1.93	1.78	1.69	492.07	231.45	-5.24
563.750	1.73	1.70	1.69	2.09	2.57	3.28	563.750	2.01	1.87	1.78	500.00	227.96	-5.37
633.590	1.87	1.83	1.84	2.34	2.92	3.83	633.590	2.08	1.95	1.86	595.24	215.31	-6.99
703.440	2.04	2.01	2.01	2.57	3.30	4.26	703.440	2.14	2.03	1.96	698.41	211.97	-9.04
726.720	2.10	2.07	2.07	2.62	3.35	4.39	726.720	2.15	2.04	1.98	724.21	216.32	-10.11
750.000	2.17	2.13	2.14	2.69	3.43	4.51	750.000	2.17	2.07	2.00	750.00	208.56	-10.96

Click Above for Actual Performance Data.

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