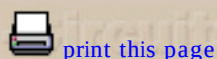


Frequency Mixers

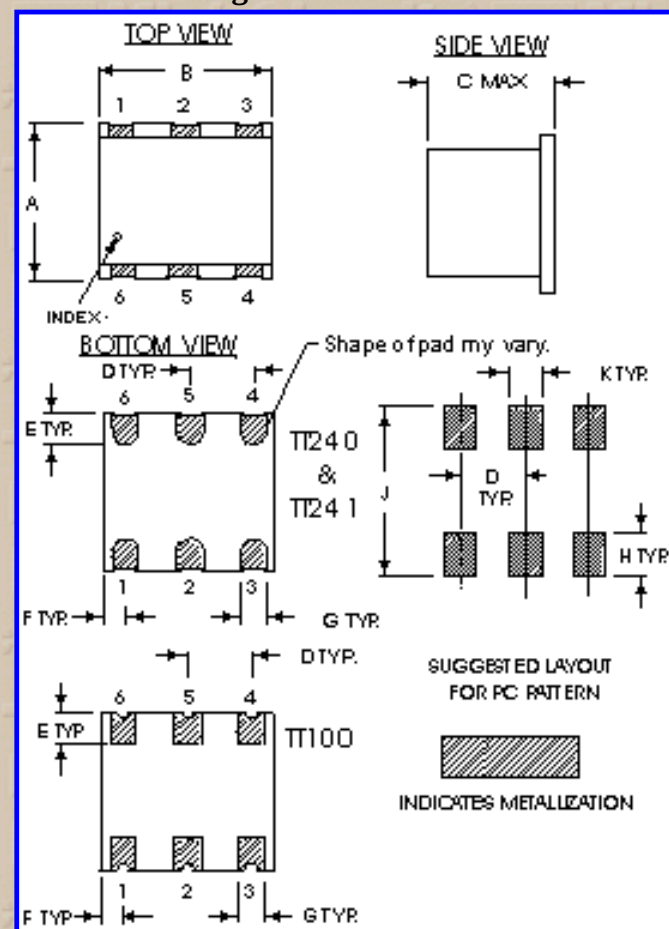


LO Power Level 17 dBm

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-1WH



Electrical Specifications

RMS-1WH

LO Power Level 17 dBm

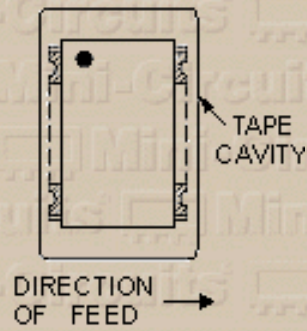
Frequency MHz		Max. Conversion Loss dB		Min. LO-RF Isolation dB			Min. LO-IF Isolation dB		
LO/RF	IF	Mid-Band Total Range		L	M	U	L	M	U
10.00-750	DC-750	8.5	8.8	40	22	20	30	22	20

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-1WH		Conversion Loss (dB)			ISO	Isolation L-R (dB)			Isolation L-I (dB)		
RF MHz	LO MHz	LO +14 dBm	LO +17 dBm	LO +20 dBm	LO (MHz)	LO +14 dBm	LO +17 dBm	LO +20 dBm	LO +14 dBm	LO +17 dBm	LO +20 dBm
5.000	35.000	8.68	7.75	7.20	5.000	64.86	66.55	68.27	73.06	73.50	71.89
10.000	40.000	8.40	7.52	7.00	10.000	62.27	63.83	65.42	72.36	69.50	66.38
20.000	50.000	8.41	7.55	7.01	20.000	57.44	59.08	60.58	71.26	64.80	60.89
50.000	80.000	8.43	7.42	6.90	50.000	50.45	52.11	53.60	67.76	57.91	53.86
74.840	44.844	8.30	7.41	6.91	74.840	46.95	48.49	49.98	64.89	53.78	49.60
100.000	70.000	8.32	7.39	6.91	100.000	44.50	46.11	47.57	63.75	51.70	47.52
144.690	114.688	8.42	7.45	6.92	144.690	41.50	42.99	44.25	62.95	49.47	45.02
200.000	170.000	8.27	7.30	6.79	200.000	38.70	40.13	41.60	60.40	47.34	43.07
214.530	184.531	8.37	7.40	6.84	214.530	38.06	39.53	40.73	59.55	46.89	42.48
284.370	254.375	8.22	7.23	6.78	284.370	35.96	37.33	38.39	53.28	45.02	41.00
354.220	324.219	8.24	7.16	6.80	354.220	34.04	35.54	36.42	48.78	43.14	39.28
375.000	345.000	8.06	7.05	6.70	375.000	33.67	35.14	36.16	48.58	42.85	38.45
424.060	394.063	8.08	7.16	6.82	424.060	32.81	34.14	35.33	44.82	41.59	38.28
493.910	463.906	7.83	7.03	6.75	493.910	32.81	33.18	33.86	39.28	37.59	35.97
500.000	470.000	7.82	7.01	6.74	500.000	31.90	33.08	33.79	39.07	37.44	35.96
563.750	533.750	7.84	7.11	6.82	563.750	31.59	32.88	33.69	35.77	35.30	34.45
633.590	603.594	7.87	7.37	7.07	633.590	31.33	32.86	33.79	32.18	31.86	32.61
703.440	673.438	7.83	7.34	7.10	703.440	30.56	32.15	33.18	30.77	31.10	30.99
726.720	696.719	7.97	7.41	7.12	726.720	30.39	32.02	32.84	29.94	30.76	30.43
750.000	720.000	8.11	7.47	7.15	750.000	30.20	31.80	32.59	28.89	30.34	30.31

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 +14 dBm	LO +17 dBm	LO +20 dBm	LO +14 dBm	LO +17 dBm	LO +20 dBm	FREQ. (MHz)	LO +14 dBm	LO +17 dBm	LO +20 dBm	FREQ. MHz	max.DC output mV	DC offset mV								
5.000	1.94	2.02	2.07	1.52	1.97	2.71	5.000	1.30	1.07	1.07	5.00	887.60	0.25								
10.000	1.58	1.71	1.83	1.32	1.87	2.69	10.000	1.31	1.07	1.06	10.00	888.60	0.23								
20.000	1.45	1.61	1.74	1.24	1.84	2.58	20.000	1.31	1.08	1.07	20.00	876.20	0.19								
50.000	1.39	1.56	1.68	1.31	1.92	2.70	50.000	1.33	1.12	1.10	50.00	891.10	-0.04								
74.840	1.35	1.53	1.65	1.25	1.86	2.61	74.840	1.37	1.16	1.13	74.84	889.60	-0.22								
100.000	1.33	1.50	1.62	1.25	1.81	2.54	100.000	1.41	1.21	1.17	100.00	885.20	-0.61								
144.690	1.32	1.47	1.58	1.27	1.77	2.47	144.690	1.52	1.31	1.25	144.69	863.50	-1.53								
200.000	1.32	1.43	1.52	1.31	1.70	2.32	200.000	1.67	1.45	1.36	200.00	892.30	-2.85								
214.530	1.32	1.41	1.50	1.33	1.70	2.29	214.530	1.71	1.48	1.38	214.53	913.00	-3.22								
284.370	1.34	1.37	1.42	1.38	1.58	2.07	284.370	1.94	1.66	1.52	284.37	886.10	-5.61								
354.220	1.35	1.32	1.34	1.45	1.51	1.94	354.220	2.20	1.86	1.66	354.22	990.80	-5.62								
375.000	1.35	1.30	1.31	1.48	1.50	1.86	375.000	2.25	1.90	1.69	375.00	988.60	-6.15								
424.060	1.34	1.25	1.25	1.50	1.44	1.85	424.060	2.41	2.00	1.75	424.06	892.00	-8.95								
493.910	1.30	1.17	1.15	1.49	1.36	1.71	493.910	2.60	2.12	1.82	493.91	933.30	-11.44								
500.000	1.29	1.17	1.14	1.48	1.36	1.74	500.000	2.58	2.14	1.82	500.00	936.50	-11.69								
563.750	1.22	1.08	1.07	1.42	1.29	1.64	563.750	2.62	2.15	1.81	563.75	822.90	-10.06								
633.590	1.11	1.03	1.13	1.33	1.29	1.72	633.590	2.59	2.10	1.77	633.59	829.40	-14.53								
703.440	1.02	1.17	1.27	1.25	1.36	1.92	703.440	2.45	1.99	1.67	703.44	779.80	-16.35								
726.720	1.06	1.22	1.33	1.22	1.40	1.94	726.720	2.39	1.93	1.63	726.72	818.70	-19.81								
750.000	1.12	1.28	1.39	1.21	1.46	2.11	750.000	2.31	1.87	1.58	750.00	860.40	-20.55								

Click Above for Actual Performance Data.



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