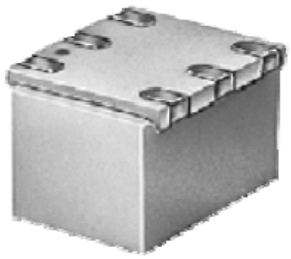
Frequency Mixers



LO Power Level 7 dBm

Notes:

- .
- .
- Prices and Specifications subjects to change without notice.

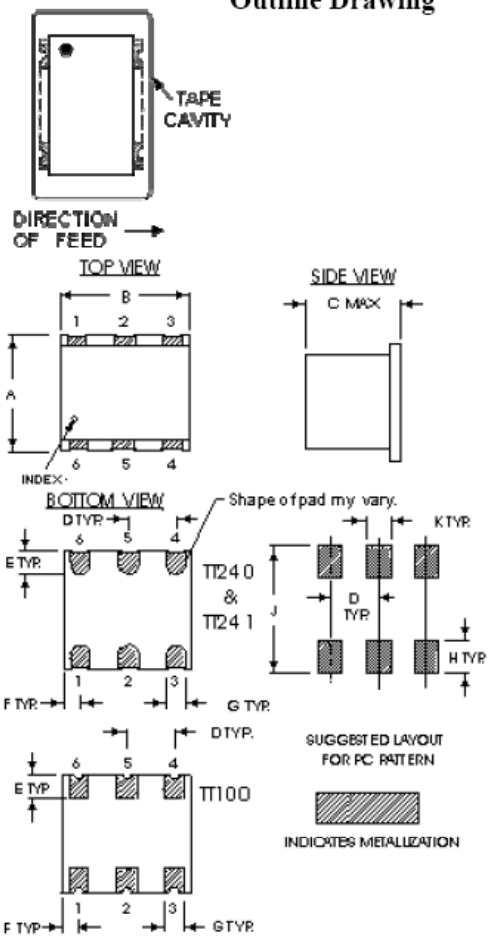
RMS-2

Pin Configuration

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

UNIT ORIENTATION

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: tin-lead plate or tin plate over nickel. Board edges straight.

Packaging:

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

Electrical Specifications

RMS-2 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
5.00-1000	DC-1000	8.0	9.5	40	20	18	30	20	12

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-2		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
5.000	35.000	7.36	6.93	6.73	5.000	63.51	67.42	71.51	54.09	57.23	60.91
10.000	40.000	7.46	7.00	6.77	10.000	62.56	66.49	69.85	53.93	56.87	60.05
20.000	50.000	7.48	6.97	6.74	20.000	62.58	65.94	67.41	54.31	56.78	58.53
35.151	65.151	7.44	6.92	6.69	35.151	61.45	62.92	63.63	54.38	55.59	55.96
50.000	80.000	7.34	6.86	6.64	50.000	59.46	60.51	60.50	53.62	53.87	53.50
65.303	95.303	7.34	6.89	6.83	65.303	58.47	58.52	58.32	52.68	52.15	51.36
100.000	70.000	7.28	6.84	6.63	100.000	55.37	55.07	54.79	50.33	48.85	47.88
155.758	125.758	7.13	6.72	6.69	155.758	52.32	52.10	52.01	47.76	46.19	45.23
200.000	170.000	7.05	6.70	6.57	200.000	50.02	49.75	49.52	46.56	44.71	43.39
246.212	216.212	7.10	6.75	6.62	246.212	48.29	48.10	47.91	45.70	43.71	42.09
306.515	276.515	7.36	6.96	6.76	306.515	45.94	45.81	45.93	44.23	41.99	40.44
366.818	336.818	7.32	6.97	6.74	366.818	44.47	44.49	44.55	41.86	39.66	38.17
427.121	397.121	7.33	6.99	6.72	427.121	41.97	42.09	41.90	39.61	37.81	36.16
500.000	470.000	7.39	7.03	6.79	500.000	39.79	39.89	40.06	36.42	35.06	33.99
577.879	547.879	7.76	7.29	6.96	577.879	38.54	38.51	38.57	33.96	32.59	31.15
668.333	638.333	8.01	7.63	7.29	668.333	36.95	36.87	36.82	30.50	29.46	28.24
758.788	728.788	8.26	7.68	7.26	758.788	35.07	34.71	34.32	27.57	26.72	25.82
849.242	819.242	8.75	7.98	7.47	849.242	33.45	33.07	32.91	24.48	23.71	23.08
909.545	879.545	9.29	8.51	7.90	909.545	32.65	32.47	32.32	22.84	22.35	21.55
1000.000	970.000	9.54	8.90	8.34	1000.000	32.22	32.02	31.76	20.37	20.21	19.62

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	1.30	1.35	1.38	1.72	2.44	3.27	5.000	1.40	1.22	1.11	10.00	230.39	-0.33
10.000	1.19	1.25	1.29	1.68	2.37	3.24	10.000	1.41	1.22	1.11	20.00	229.73	-0.33
20.000	1.15	1.22	1.27	1.80	2.52	3.36	20.000	1.42	1.23	1.12	39.12	228.12	-0.33
35.151	1.15	1.22	1.28	1.79	2.57	3.40	35.151	1.43	1.23	1.11	50.00	228.00	-0.30
50.000	1.15	1.23	1.29	1.77	2.54	3.37	50.000	1.45	1.24	1.12	68.23	225.82	-0.27