

Frequency Mixer

RMS-25MHW

Level 13 (LO Power +13 dBm) 5 to 2500 MHz



CASE STYLE: TT240
PRICE: \$7.95 ea.
QTY.: (1-9)

Maximum Ratings

Operating Temperature	-40°C to 85°C
Storage Temperature	-55°C to 100°C
RF Power	200mW
IF Current	40mA

Features

- low conversion loss, 7.0 dB typ.
- good L-R & L-I isolation, 32 dB typ.
- wide IF bandwidth, 5-2200 MHz

Applications

- cellular
- UHF-TV
- PCN
- GSM

Electrical Specifications

FREQUENCY (MHz)	CONVERSION LOSS (dB)	LO-RF ISOLATION (dB)				LO-IF ISOLATION (dB)			IP3 @ center band Typ. (dBm)	E FACTOR					
		L	M	U	L	M	U								
5-2500	7.0	54	28	32	23	32	20	34	23	32	25	28	17	18	0.5

1dB Compr.: +9 dBm typ.
E = [IP3(dBm)-LO Power(dBm)]/10

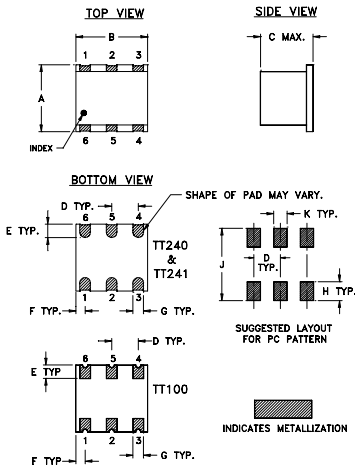
L = low range [f_i to $10 f_i$] M = mid range [$10 f_i$ to $f_i/2$] U = upper range [$f_i/2$ to f_i]
m = mid band [$2f_i$ to $f_i/2$]

Pin Configuration (w)

LO	1
RF	4
IF	5
GROUND	2,3,6

EVALUATION BOARD P/N: TB-03

Outline Drawing



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Outline Dimensions (inch mm)

A	B	C	D	E	F	G	H
.250	.31	.20	.100	.050	.055	.040	.070
6.35	7.87	5.08	2.54	1.27	1.40	1.02	1.78
J	K	wt.					
.270	.050	grams					
6.86	1.27	.40					

Typical Performance Data

Frequency	Conversion Loss	Isolation L-R	Isolation L-I	VSWR LO port	VSWR RF port
RF MHz	LO MHz	(dB)	(dB)	(:1)	(:1)
5.00	35.00	6.75	41.77	2.31	1.26
7.00	37.00	6.64	43.90	2.28	1.07
9.00	39.00	6.57	45.70	2.29	1.06
15.00	45.00	6.50	49.51	2.27	1.06
55.00	85.00	6.58	56.94	2.26	1.04
95.00	125.00	6.68	52.10	2.25	1.08
100.00	130.00	6.67	47.09	2.15	1.16
330.00	360.00	6.98	38.07	2.04	1.24
560.00	590.00	6.92	33.58	1.90	1.33
790.00	820.00	6.86	32.21	1.83	1.47
1020.00	1050.00	6.98	33.29	1.68	1.63
1250.00	1280.00	7.21	34.33	1.58	1.77
1480.00	1510.00	7.22	38.26	1.42	1.77
1710.00	1740.00	7.28	39.36	1.30	1.65
1940.00	1970.00	7.27	35.60	29.25	1.62
2170.00	2200.00	7.28	32.25	28.84	1.44
2400.00	2430.00	7.46	28.58	28.58	1.61
2450.00	2480.00	7.53	28.06	28.42	1.63
2475.00	2505.00	7.57	27.70	28.35	1.66
2500.00	2530.00	7.65	27.47	28.19	1.60

