

Frequency Mixer

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

RMS-25MHW



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

Maximum Ratings

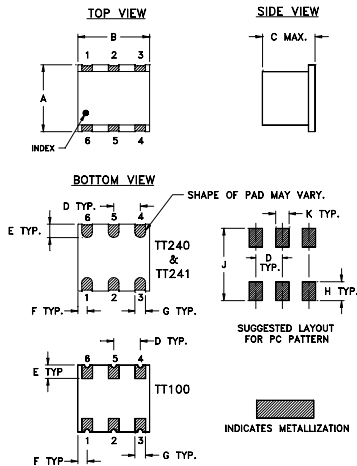
Operating Temperature	-40°C to 85°C
Storage Temperature	-55°C to 100°C
RF Power	200mW
IF Current	40mA

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					

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
LO/RF f _L - f _u	IF	Mid-Band			Total Range Max.	L		M		U		L		M		U			
		$\bar{x}$	σ	Max.		Typ. Min.	Typ. Min.	Typ. Min.	Typ. Min.	Typ. Min.	Typ. Min.	Typ. Min.	Typ. Min.	Typ. Min.					
5-2500	5-2200	7.0	0.1	8.5	9.8	54	28	32	23	32	20	34	23	32	25	28	17	18	0.5

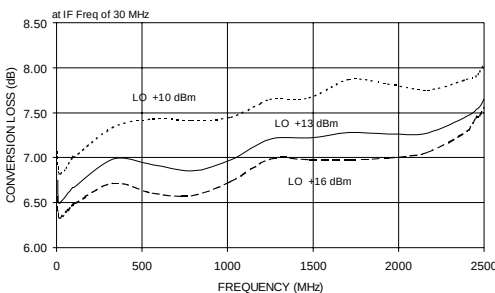
1dB Compr.: +9 dBm typ.
E = [IP3(dBm) - LO Power(dBm)]/10

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

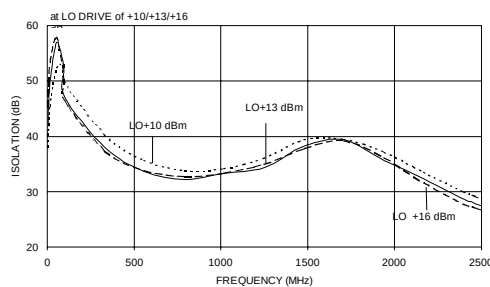
Typical Performance Data

Frequency		Conversion Loss (dB)	Isolation L-R (dB)	Isolation L-I (dB)	VSWR LO port (:1)	VSWR RF port (:1)
RF MHz	LO MHz					
		LO +13dBm	LO +13dBm	LO +13dBm	LO +13dBm	LO +13dBm
5.00	35.00	6.75	41.77	32.87	2.31	1.26
7.00	37.00	6.64	43.90	34.54	2.28	1.07
9.00	39.00	6.57	45.70	35.70	2.29	1.06
15.00	45.00	6.50	49.51	37.55	2.27	1.06
55.00	85.00	6.58	56.94	37.73	2.26	1.04
95.00	125.00	6.68	52.10	37.07	2.25	1.08
100.00	130.00	6.67	47.09	36.14	2.15	1.16
330.00	360.00	6.98	38.07	36.21	2.04	1.24
560.00	590.00	6.92	33.58	34.52	1.90	1.33
790.00	820.00	6.86	32.21	32.04	1.83	1.47
1020.00	1050.00	6.98	33.29	31.85	1.68	1.63
1250.00	1280.00	7.21	34.33	30.26	1.58	1.77
1480.00	1510.00	7.22	38.26	32.39	1.42	1.77
1710.00	1740.00	7.28	39.36	33.11	1.30	1.65
1940.00	1970.00	7.27	35.60	29.25	1.31	1.62
2170.00	2200.00	7.28	32.25	28.84	1.44	1.68
2400.00	2430.00	7.46	28.58	28.58	1.61	1.73
2450.00	2480.00	7.53	28.06	28.42	1.63	1.69
2475.00	2505.00	7.57	27.70	28.35	1.66	1.61
2500.00	2530.00	7.65	27.47	28.19	1.61	1.60

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CONVERSION LOSS



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ISOLATION L-R



RMS-25MHW
VSWR

