

Surface Mount

Frequency Mixer

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

RMS-25MHW+


CASE STYLE: TT240

PRICE: Consult Sales Dept.

Maximum Ratings

Operating Temperature -40°C to 85°C

Storage Temperature -55°C to 100°C

RF Power 200mW

IF Current 40mA

Pin Configuration

LO 1

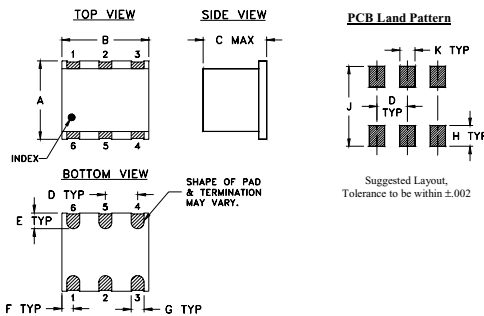
RF 4

IF 5

GROUND 2,3,6

EVALUATION BOARD P/N: TB-03

Outline Drawing



Outline Dimensions (inch mm)

A	B	C	D	E	F
.250	.31	.20	.100	.050	.055
6.35	7.87	5.08	2.54	1.27	1.40
G	H	J	K	wt	
.040	.070	.270	.050	grams	
1.02	1.78	6.86	1.27	0.50	

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

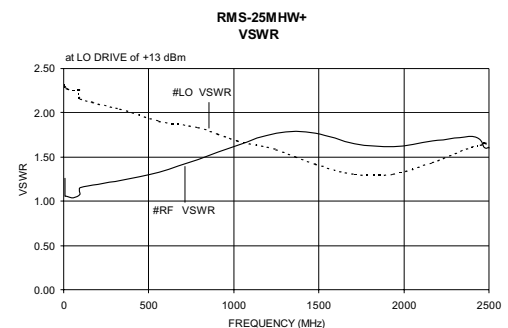
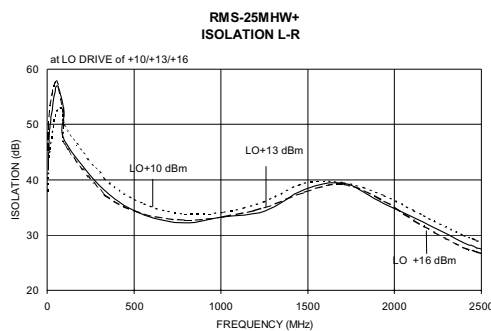
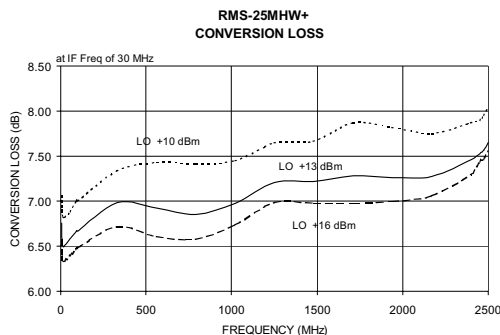
FREQUENCY (MHz)		CONVERSION LOSS (dB)				LO-RF ISOLATION (dB)						LO-IF ISOLATION (dB)						IP3@ center band Typ. (dBm)						
LO/RF f _i - f _u	IF	Mid-Band			Total Range Max.	L			M			U			L				M			U		
		x̄	m	Max.		Typ.	Min.	Typ.	Min.	Typ.	Min.	Typ.	Min.	Typ.	Min.	Typ.	Min.		Typ.	Min.	Typ.	Min.		
5-2500	5-2200	7.0	0.1	8.5	9.8	54	28	32	23	32	20	34	23	32	25	28	17	18						

1dB Compr.: +9 dBm typ.

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

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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I/IRF MICROWAVE COMPONENTS

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