

Frequency Mixer

Level 7 (LO Power +7 dBm) 750 to 2400 MHz

TFM-2400+



CASE STYLE: B13

PRICE: \$33.20 ea. QTY (1-9)

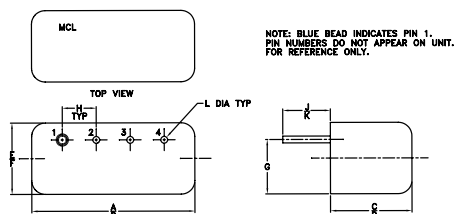
Maximum Ratings

Operating Temperature	-55°C to 100°C
Storage Temperature	-55°C to 100°C
RF Power	50mW
IF Current	40mA

Pin Connections

LO	1
RF	4
IF	2
GROUND	3
CASE GROUND	3

Outline Drawing



Outline Dimensions (inch)

A	B	C	D	E	F
.480	.500	.390	.405	.210	.230
12.19	12.70	9.91	10.29	5.33	5.84
G	H	J	K	L	wt
.16	.100	.14	.20	.020	grams
4.06	2.54	3.56	5.08	0.51	2.3

Features

- low conversion loss, 6.65 dB typ.
- wideband, 700 to 2400 MHz
- rugged welded construction
- hermetically sealed

Applications

- base station
- cellular
- DCS, PCS
- communications systems

Electrical Specifications

FREQUENCY (MHz)	CONVERSION LOSS (dB)	LO-RF ISOLATION (dB)	LO-IF ISOLATION (dB)
LO/RF $f_L - f_U$	$\bar{X}$ σ Max.	Typ. Min.	Typ. Min.
750-2400 DC-400	6.65 0.20 9.0	30 20	30 10

1 dB COMP.: +1 dBm typ.

Typical Performance Data

Frequency (MHz)	Conversion Loss (dB)	Isolation L-R (dB)	Isolation L-I (dB)	VSWR RF Port (:1)	VSWR LO Port (:1)
RF LO	LO +7dBm	LO +7dBm	LO +7dBm	LO +7dBm	LO +7dBm
500.00 530.00	5.45	54.10	25.42	1.90	2.44
650.00 680.00	5.24	46.72	24.17	1.19	2.42
800.00 830.00	5.18	50.53	24.04	1.21	2.60
950.00 980.00	5.34	39.92	22.92	1.56	2.84
1000.00 1030.00	5.61	38.68	21.93	1.74	2.92
1100.00 1070.00	6.52	35.67	19.02	1.90	2.94
1150.00 1120.00	6.54	35.25	17.69	2.78	2.95
1250.00 1220.00	6.21	35.47	16.09	3.17	2.82
1350.00 1320.00	6.10	38.09	15.24	3.20	2.88
1500.00 1470.00	6.10	40.51	17.24	3.59	3.05
1650.00 1620.00	6.97	39.61	20.00	3.82	3.00
1750.00 1720.00	7.73	40.56	21.79	4.92	2.60
1800.00 1770.00	7.87	41.20	23.27	5.75	2.00
1950.00 1920.00	7.91	37.08	25.03	6.73	1.71
2000.00 1970.00	7.83	36.28	24.82	6.63	1.59
2150.00 2120.00	7.95	34.61	21.63	7.22	1.54
2300.00 2270.00	8.12	34.07	19.31	7.66	1.68
2400.00 2370.00	8.32	33.85	18.30	8.43	2.03
2450.00 2420.00	7.93	33.63	17.81	8.60	2.45
2500.00 2470.00	7.98	34.92	18.95	8.16	2.65

Electrical Schematic

