

Plug-In

Frequency Mixer

Level 10 (LO Power +10 dBm) 10 to 3000 MHz

TFM-15+



CASE STYLE: B13

PRICE: \$56.45 ea. QTY (1-9)

+ RoHS compliant in accordance with EU Directive (2002/95/EC)

The +Suffix has been added in order to identify RoHS Compliance. See our web site for RoHS Compliance methodologies and qualifications.

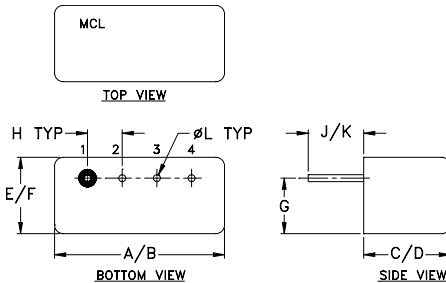
Maximum Ratings

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/mm)

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, 6.75 dB typ.
- excellent L-R isolation, 35 dB typ.
- wideband, 10 to 3000 MHz
- rugged welded construction
- hermetically sealed

Applications

- cellular
- ISM/GSM
- PCN
- MMDS

Electrical Specifications

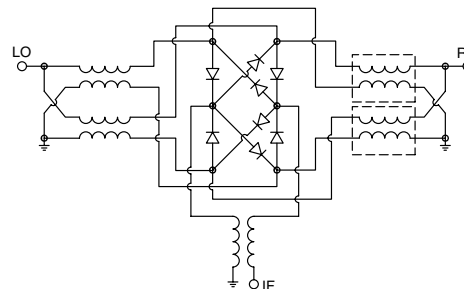
FREQUENCY (MHz)		CONVERSION LOSS (dB)				LO-RF ISOLATION (dB)		LO-IF ISOLATION (dB)	
LO/RF	IF	Mid-Band m		Total Range Max.					
f_L-f_U		$\bar{X}$	σ	Max.	Max.	Typ.	Min.	Typ.	Min.
10-3000	10-800	6.75	0.08	8.0	8.5	35	25	30	20

1 dB COMP.: +5 dBm typ.
m = mid band [$2f_L$ to $f_U/2$]

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 +10dBm	LO +10dBm	LO +10dBm	LO +10dBm	LO +10dBm
10.00	40.00	6.53	26.10	25.08	1.84	1.71
20.00	50.00	6.60	30.38	29.74	1.54	1.51
100.00	70.00	6.55	35.82	35.93	1.50	1.37
200.00	170.00	6.60	37.35	38.21	1.55	1.44
400.00	370.00	6.74	36.49	39.50	1.72	1.40
500.00	470.00	6.52	35.42	38.00	1.99	1.34
790.00	760.00	6.70	32.94	33.60	2.45	1.33
920.00	890.00	6.76	32.80	33.97	2.70	1.36
1180.00	1150.00	7.30	31.62	32.89	2.85	1.36
1310.00	1280.00	7.30	31.27	34.31	2.75	1.38
1500.00	1470.00	6.54	29.76	32.85	2.28	1.30
1700.00	1670.00	6.91	28.49	30.87	1.94	1.27
1830.00	1800.00	6.97	29.46	28.22	1.44	1.29
2000.00	1970.00	7.07	28.32	27.77	1.25	1.34
2200.00	2170.00	6.97	27.89	27.68	1.42	1.34
2480.00	2450.00	6.93	28.37	24.64	1.97	1.44
2610.00	2580.00	7.08	27.10	23.13	2.18	1.52
2740.00	2710.00	7.45	26.79	21.95	2.37	1.93
2870.00	2840.00	7.56	26.23	21.25	2.09	2.25
3000.00	2970.00	8.31	29.30	20.32	2.18	2.63

Electrical Schematic



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RF/IF MICROWAVE COMPONENTS

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Page 1 of 2

