

Frequency Mixer

Level 7 (LO Power +7 dBm) 300 to 4300 MHz

TFM-4300+



CASE STYLE: B13

PRICE: \$43.20 ea. QTY (1-9)

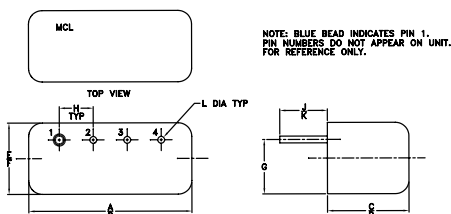
Maximum Ratings

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/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, 5.87 dB typ.
- wideband, 300 to 4300 MHz
- rugged welded construction
- hermetically sealed

Applications

- satellite communications
- cellular
- PCS
- instrumentation

+ 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.

Electrical Specifications

FREQUENCY (MHz)		CONVERSION LOSS (dB)				LO-RF ISOLATION (dB)						LO-IF ISOLATION (dB)					
LO/RF	IF	Mid-Band m		Total Range Max.		L	M	U				L	M	U			
f_L - f_U		$\bar{X}$	σ	Max.	8.0*	Typ.	Min.	Typ.	Min.	Typ.	Min.	Typ.	Min.	Typ.	Min.	Typ.	Min.
10-2000	DC-1000*	6.19	0.11	8.0	8.0*	32	25	35	25	35	25	33	20	30	20	30	20

1 dB COMP.: +1 dBm typ.

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

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
300.00	400.00	7.36	51.34	31.66	5.75	4.40
414.29	514.29	6.29	64.83	33.69	3.35	2.89
528.57	428.57	5.08	49.72	36.96	2.55	2.65
757.14	657.14	4.96	41.17	38.13	1.71	2.19
1000.00	900.00	5.45	37.81	30.37	2.55	2.08
1214.29	1114.29	6.11	36.73	26.04	3.13	1.99
1442.86	1342.86	6.61	35.66	22.90	3.50	1.85
1671.43	1571.43	6.86	34.88	19.27	4.13	1.68
1900.00	1800.00	7.03	33.74	17.66	4.48	1.61
2000.00	1900.00	7.13	33.54	17.52	5.06	1.57
2128.57	2028.67	7.43	33.70	17.76	5.38	1.47
2471.43	2371.43	8.04	33.24	18.85	5.56	1.41
2700.00	2000.00	8.34	33.45	19.52	5.51	1.37
2814.29	2714.29	8.52	34.07	19.86	5.27	1.36
3000.00	2900.00	8.85	33.99	19.95	5.77	1.58
3157.14	3057.14	9.03	33.55	19.48	6.97	1.60
3500.00	3400.00	9.22	32.04	18.72	8.72	2.03
3728.57	3628.57	9.04	30.42	18.47	8.23	2.39
4000.00	3900.00	8.91	29.46	20.82	7.47	2.43
4300.00	4200.00	8.41	33.24	24.62	6.26	2.13

Electrical Schematic

