

Plug-In

Frequency Mixer

Level 7 (LO Power +7dBm) 50 to 1000 MHz

TUF-2+



Maximum Ratings

Operating Temperature	-55°C to 100°C
Storage Temperature	-55°C to 100°C
RF Power	50mW
IF Current	40mA
Permanent damage may occur if any of these limits are exceeded.	

Pin Connections

LO	4
RF	1
IF	2
GROUND	3
CASE GROUND	3

Features

- low conversion loss, 5.85 dB typ.
- excellent isolation, 47 dB typ. L-R, 44 dB typ. L-I
- wideband, 50 to 1000 MHz
- rugged welded construction

Applications

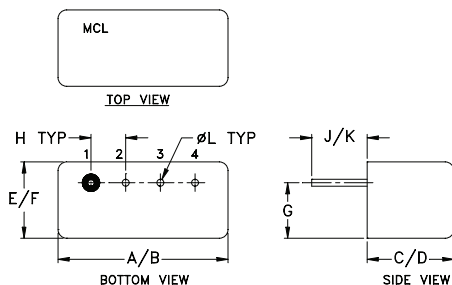
- VHF/UHF
- cellular ISM/GSM

CASE STYLE: B02
PRICE: \$9.20 ea. QTY (10)

+RoHS Compliant

The +Suffix identifies RoHS Compliance. See our web site for RoHS Compliance methodologies and qualifications

Outline Drawing



Outline Dimensions (inch/mm)

A	B	C	D	E	F
.480	.500	.240	.255	.210	.230
12.19	12.70	6.10	6.48	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	1.9

Electrical Specifications

FREQUENCY (MHz)		CONVERSION LOSS (dB)				LO-RF ISOLATION (dB)						LO-IF ISOLATION (dB)						IP3 @ CENTER BAND (dBm)
LO/RF	IF	Mid-Band m				L	M	U	L	M	U	L	M	U				
		$\overline{X}$	σ	Max.	Total Range Max.													
50-1000	DC-1000	5.85	0.07	7.5	9.0	58	40	47	30	42	25	50	35	44	20	29	18	16

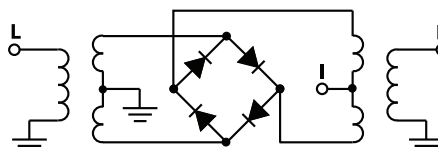
1 dB COMP: +1 dBm typ.

L = 50-100 MHz M = 100-500 MHz U = upper range [$f_u/2$ to f_u]
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 +7dBm	LO +7dBm	LO +7dBm	LO +7dBm	LO +7dBm
50.00	80.00	6.03	61.24	62.94	1.08	2.52
100.00	70.00	6.12	55.20	58.22	1.10	2.47
129.17	99.17	6.03	53.19	56.36	1.12	2.42
200.00	170.00	5.94	49.63	53.04	1.17	2.35
208.33	178.33	5.97	49.40	52.95	1.22	2.31
287.50	257.50	5.98	46.76	49.61	1.27	2.32
340.28	310.28	5.94	45.51	47.70	1.33	2.34
366.67	336.67	5.91	45.07	46.56	1.36	2.32
445.83	415.83	5.88	43.51	43.99	1.43	2.32
498.61	468.61	5.96	42.80	42.71	1.47	2.34
500.00	470.00	5.98	42.81	42.75	1.50	2.33
551.39	521.39	6.04	42.43	42.00	1.58	2.37
630.56	600.56	6.27	41.96	39.82	1.68	2.38
683.33	653.33	6.36	41.15	38.97	1.76	2.35
709.72	679.72	6.45	40.66	38.42	1.79	2.33
788.89	758.89	6.59	39.89	37.39	1.94	2.34
868.06	838.06	6.81	39.69	36.49	2.11	2.38
947.22	917.22	7.04	39.66	34.99	2.31	2.42
973.61	943.61	7.23	39.91	34.80	2.37	2.42
1000.00	970.00	7.37	39.73	34.55	2.44	2.41

Electrical Schematic



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ISO 9001 ISO 14001 AS 9100 CERTIFIED

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IF/RF MICROWAVE COMPONENTS

For detailed performance specs & shopping online see web site

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