Plug-In **Frequency Mixer**

Level 10 (LO Power +10dBm) 50 to 1000

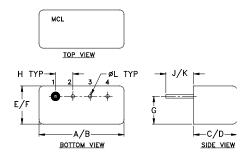
Maximum Ratings

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

Outline Drawing



Outline Dimensions (inch)									
В	С	D	E	F					
.500	.240	.255	.210	.230					
12.70	6.10	6.48	5.33	5.84					
н	J	K	L	wt					
.100	.14	.20	.020	grams					
2.54	3.56	5.08	0.51	1.9					
	B .500 12.70 H .100	B C .500 .240 12.70 6.10 H J .100 .14	B C D .500 .240 .255 12.70 6.10 6.48 H J K .100 .14 .20	B C D E .500 .240 .255 .210 12.70 6.10 6.48 5.33 H J K L .100 .14 .20 .020					

Features

- low conversion loss, 5.9 dB typ.
- high isolation, 44 dB typ. L-R, 50 dB typ. L-I
- wideband, 50 to 1000 MHz
- rugged welded construction

Applications

• VHF/UHF

• cellular ISM/GSM





Generic photo used for illustration purposes only CASE STYLE: B02

+RoHS Compliant

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

Electrical Specifications

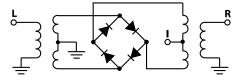
	UENCY Hz)	CO	NVERS (d	BION LO	OSS	LO-RF ISOLATION (dB)			LO-IF ISOLATION (dB)								
LO/RF	IF	_	Mid-Bano m	-	Total Range	I	-	Ν	Л	ι	-	l	-	Ν	Л	ι	
ff _U		X	σ	Max.	Max.	Тур.	Min.	Тур.	Min.	Тур.	Min.	Тур.	Min.	Тур.	Min.	Тур.	Min.
50-1000	DC-1000	5.9	0.30	7.0	8.5	58	40	44	30	39	25	60	35	50	25	38	20
1 dB COMP.: +5	5 dBm typ.			L = 50	-100 MH	z M	= 100-	500 M	Hz	U = up	oper ra	nge [f	/2 to f	u]			

m= mid band [2f, to f,/2]

Typical Performance Data

Typical Tenormance Data											
Freq (N	uency IHz)	Conversion Loss (dB)	Isolation L-R (dB)	lsolation L-I (dB)	VSWR RF Port (:1)	VSWR LO Port (:1)					
RF	LO	LO +10dBm	LO +10dBm	LO +10dBm	LO +10dBm	LO +10dBm					
10	L0	+100Dill	+ TOODIII	+T00DIII	+ TOUDIN	+T00DIII					
5.00	35.00	5.97	52.74	87.33	1.25	2.82					
10.00	40.00	5.89	52.59	81.78	1.18	2.63					
20.00	50.00	5.90	52.51	76.47	1.16	2.68					
50.00	80.00	5.96	52.73	68.83	1.18	2.62					
95.45	65.45	6.01	52.59	68.37	1.19	2.50					
100.00	70.00	6.04	52.35	67.59	1.21	2.50					
185.91	155.91	5.82	52.03	63.99	1.22	2.40					
200.00	170.00	5.77	52.24	62.23	1.23	2.48					
276.36	246.36	5.75	51.93	58.87	1.23	2.38					
366.82	336.82	5.81	52.59	53.25	1.22	2.39					
457.27	427.27	5.88	47.42	55.40	1.21	2.42					
487.42	457.42	5.91	45.90	49.79	1.20	2.42					
500.00	470.00	5.94	48.30	46.54	1.19	2.43					
547.73	517.73	6.07	57.22	40.10	1.18	2.44					
638.18	608.18	6.63	48.69	37.95	1.15	2.49					
728.64	698.64	7.20	42.92	36.76	1.11	2.47					
819.09	789.09	7.24	41.04	32.27	1.05	2.47					
909.55	879.55	7.27	41.87	29.47	1.15	2.57					
969.85	939.85	7.69	44.77	28.21	1.30	2.60					
1000.00	970.00	7.81	50.08	26.90	1.38	2.59					

Electrical Schematic

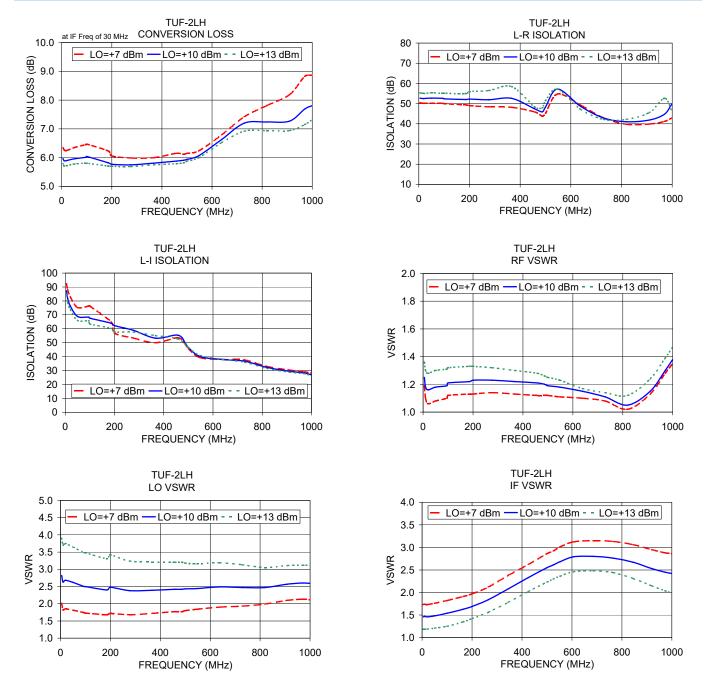


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Performance Charts

TUF-2LH+



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