Plug-In **Frequency Mixer**

Level 10 (LO Power +10 dBm) 2 to 600 MHz

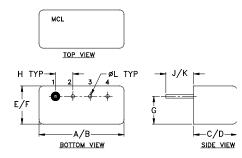
Maximum Ratings

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)										
E F	E	D	С	В	Α					
.210 .230	.210	.255	.240	.500	.480					
5.33 5.84	5.33	6.48	6.10	12.70	12.19					
L wt	L	K	J	н	G					
.020 grams	.020	.20	.14	.100	.16					
0.51 1.9	0.51	5.08	3.56	2.54	4.06					

Features

- low conversion loss, 6.0 dB typ.
- high L-R & L-I isolation, 50 dB typ.
- rugged welded construction

Applications

• VHF/UHF

• defense & federal communications





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

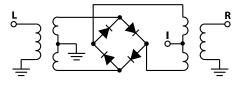
	JENCY Hz)	CON		SION dB)	LOSS	LO-RF ISOLATION (dB)			LO	IF ISOLAT (dB)	IP3 @ CENTER BAND (dBm)			
LO/RF	IF		/lid-Bar m σ	nd Max.	Total Range Max.	L Typ.	- Min	M Typ. Mi	U in. Typ.		L Typ. Min.	M Typ. Min.	U Typ. Min.	Тур.
L U			0	IVICIA.	τνιαλ.	тур.	IVIII I.	Typ. Ivii	п. тур.	iviii i.	Typ. Tviiri.	Typ. Tviiri.	Typ. Will I.	.,,p.
2-600	DC-600	6.0	0.17	7.0	8.0	70	50	50 3	0 42	25	65 45	50 30	41 22	17
1 dB COMP:: +5 dBm typ. L = low range [f_L to 10 f_L] M = mid range [10 f_L to $f_U/2$] U = upper range [$f_U/2$ to f m = mid band [2t to f /2]								range [$f_{\rm U}/2$ to $f_{\rm U}$]						

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 +10dBm	LO +10dBm	LO +10dBm	LO +10dBm	LO +10dBm		
2.00	32.00	6.28	67.01	84.01	1.47	2.80		
4.00	34.00	5.95	65.93	80.03	1.27	2.68		
5.00	35.00	5.89	65.47	78.57	1.23	2.65		
10.00	40.00	5.80	63.93	73.13	1.14	2.48		
20.00	50.00	5.82	61.72	68.22	1.12	2.53		
50.00	80.00	5.82	56.12	60.69	1.11	2.47		
59.87	89.87	5.78	54.83	59.50	1.11	2.35		
100.00	70.00	5.77	51.13	55.91	1.12	2.37		
117.74	87.74	5.79	50.12	55.10	1.15	2.32		
175.61	145.61	5.69	47.32	52.30	1.18	2.26		
200.00	170.00	5.73	46.57	51.26	1.21	2.33		
233.48	203.48	5.70	45.24	49.36	1.25	2.27		
291.36	261.36	5.69	43.94	46.68	1.27	2.24		
300.00	270.00	5.68	43.65	46.00	1.31	2.29		
349.23	319.23	5.71	42.63	43.46	1.35	2.28		
407.10	337.10	5.70	41.85	41.86	1.40	2.28		
464.97	434.97	5.72	40.61	39.52	1.45	2.29		
522.84	492.84	5.77	39.23	37.60	1.49	2.33		
580.71	550.71	5.84	38.82	36.92	1.51	2.33		
600.00	570.00	5.87	38.87	36.44	1.53	2.31		

Electrical Schematic



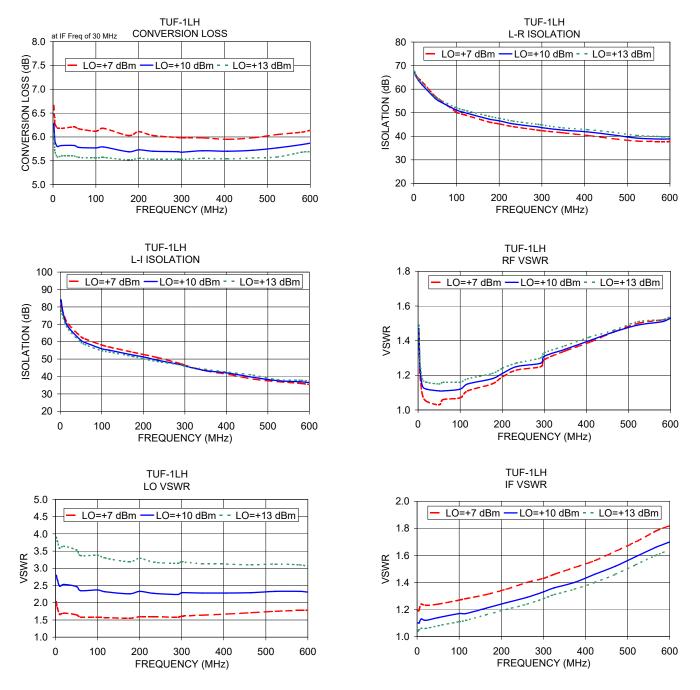
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Performance Charts

TUF-1LH+



Notes

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