

High IP3

Frequency Mixer

HJK-2911H+

Level 17 (LO Power +17 dBm) 1850 to 2910 MHz



Maximum Ratings

Operating Temperature	-40°C to 85°C
Storage Temperature	-55°C to 100°C
LO Power	+21 dBm

Permanent damage may occur if any of these limits are exceeded.

Pin Connections

LO	2
RF	1
IF	3
GROUND	4,5,6

Features

- high IP3, 28 dBm typ.
- low spurious
- 2RF-LO, -78 dBc typ.
- 2LO-2RF, -78 dBc typ.
- protected by US patent 6,807,407

Applications

- PCS
- IMT-2000

CASE STYLE: TTT881
PRICE: \$16.95 ea. QTY (1-9)

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

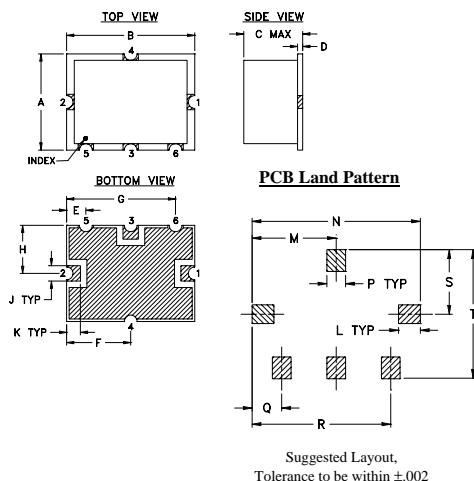
The +Suffix has been added in order to identify RoHS Compliance. See our web site for RoHS Compliance methodologies and qualifications.

Electrical Specifications (T_{AMB}=25°C)

FREQUENCY (MHz)	CONVERSION LOSS (dB)			SECOND ORDER I.M.* (dBc) Max.		RF in at 1dB Compr (dBm)	IP3 (dBm)	LO-RF ISOLATION (dB)		LO-IF ISOLATION (dB)			
	RF	LO	IF	X	σ	Max.	2RF-LO	2LO-2RF	Typ.	Min.	Typ.	Min.	
1850-1910	2480-2910	570-1000	8.2	0.2	9.5	-64	-64	17	28	39	28	33	26

* Tested @ RF Power-14 dBm.

Outline Drawing



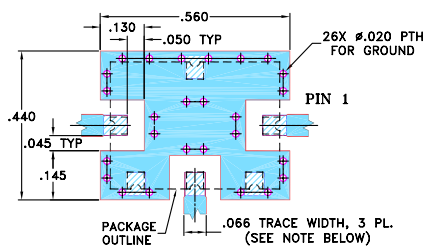
Outline Dimensions (inch/mm)

A	B	C	D	E	F	G	H	J	K
.38	.50	.23	.020	.075	.250	.425	.187	.050	.050
9.65	12.70	5.84	0.51	1.91	6.35	10.80	4.75	1.27	1.27
L	M	N	P	Q	R	S	T	wt.	
.070	.270	.540	.060	.095	.445	.208	.415	grams	
1.78	6.86	13.72	1.52	2.41	11.30	5.28	10.54	0.8	

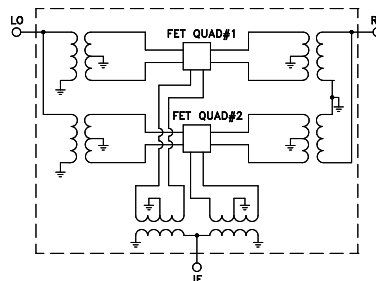
Typical Performance Data

Frequency (MHz)	Conversion Loss (dB)	Isolation L-R (dB)	Isolation L-I (dB)	VSWR LO Port (:1)	2RF-LO (dBc)	2LO-2RF (dBc)	IP3 (dBm)	
RF	LO	LO +17dBm	LO +17dBm	LO +17dBm	LO +17dBm	LO +17dBm	LO +17dBm	
1910.00	2480.00	8.10	46.45	39.28	4.33	-96.58	-77.26	30.37
1910.00	2523.00	8.13	42.96	37.40	3.20	-85.27	-77.73	29.44
1910.00	2566.00	8.09	41.03	36.33	3.46	-84.00	-80.84	30.70
1910.00	2609.00	8.18	39.00	34.99	2.66	-80.10	-79.17	28.81
1910.00	2652.00	8.14	37.97	34.33	2.78	-79.28	-78.72	30.07
1910.00	2695.00	8.26	36.72	33.03	2.31	-77.38	-77.32	28.40
1910.00	2738.00	8.22	36.80	32.73	2.38	-78.70	-79.41	28.80
1910.00	2781.00	8.26	36.54	31.77	2.15	-79.13	-78.96	27.88
1910.00	2824.00	8.34	36.88	31.83	2.23	-76.75	-77.90	27.16
1910.00	2867.00	8.34	35.60	30.89	2.15	-76.97	-77.19	27.26
1910.00	2910.00	8.48	34.66	31.11	2.29	-79.45	-74.96	26.40

Demo Board MCL P/N: TB-12 Suggested PCB Layout (PL-079)



Electrical Schematic



Mini-Circuits
ISO 9001 ISO 14001 AS 9100 CERTIFIED

The Design Engineers Search Engine



Provides ACTUAL Data Instantly at minicircuits.com

For detailed performance specs & shopping online see web site

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IF/RF MICROWAVE COMPONENTS

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