

Frequency Mixer

Level 10 (LO Power +10dBm) 1850 to 1910 MHz

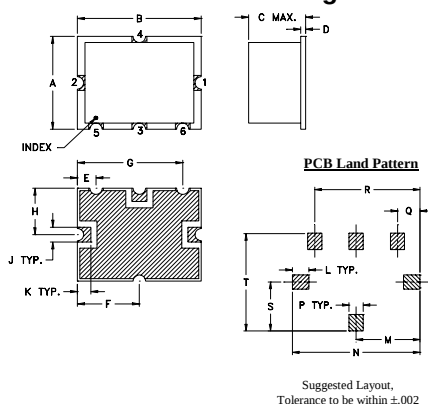
Maximum Ratings

Operating Temperature	-20°C to 85°C
Storage Temperature	-55°C to 100°C
LO & RF Power	16 dBm

Pin Connections

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

Outline Drawing

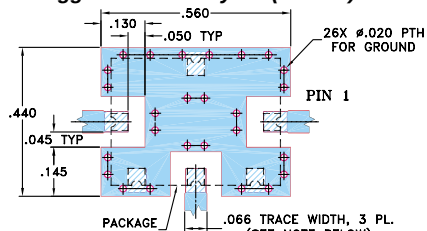


Outline Dimensions (inch)

A	B	C	D	E	F	G	H	J
.375	.500	.23	.020	.075	.250	.425	.187	.050
9.53	12.70	5.84	0.51	1.91	6.35	10.80	4.75	1.27

K	L	M	N	P	Q	R	S	T	wt.
.050	.070	.270	.540	.060	.095	.445	.208	.415	grams
1.27	1.78	6.86	13.72	1.52	2.41	11.30	5.28	10.54	0.8

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

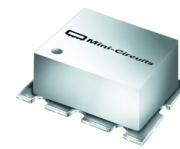


Features

- high IP3, 25 dBm typ.
- compression, 3 dB higher than LO power

Applications

- base stations
- communication systems
- cellular



CASE STYLE: TTT167
PRICE: \$12.95 ea. QTY (1-9)

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

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

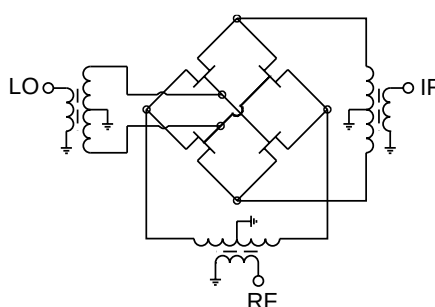
Electrical Specifications

FREQUENCY (MHz)			CONVERSION LOSS (dB)			RF in at 1dB Compr (dBm)	IP3 (dBm)	LO-RF ISOLATION (dB)		LO-IF ISOLATION (dB)	
RF	LO	IF	Typ.	σ	Max.	Typ.	Typ.	Typ.	Min.	Typ.	Min.
1850-1910	1750-1840	70-130	7.5	0.2	9.4	+13	25	30	20	23	15

Typical Performance Data

Frequency		Conversion Loss (dB)	Isolation L-R	Isolation L-I	VSWR RF Port	VSWR LO Port	IP3 (dBm)
RF MHz	LO MHz	LO +10dBm	LO +10dBm	LO +10dBm	LO +10dBm	LO +10dBm	LO +10dBm
1850.00	1780.00	7.62	30.30	27.65	1.90	1.78	23.73
1856.00	1786.00	7.62	30.04	27.56	1.89	1.72	24.54
1862.00	1792.00	7.63	29.96	27.59	1.88	1.67	24.84
1868.00	1798.00	7.62	30.07	27.63	1.88	1.63	24.51
1874.00	1804.00	7.60	29.98	27.58	1.87	1.59	24.31
1880.00	1810.00	7.57	29.79	27.61	1.87	1.55	24.18
1886.00	1816.00	7.58	29.53	27.59	1.85	1.51	24.47
1898.00	1828.00	7.64	29.30	27.72	1.84	1.45	25.41
1904.00	1834.00	7.63	29.40	27.79	1.83	1.43	24.78
1910.00	1840.00	7.63	29.41	27.82	1.83	1.42	25.20

electrical schematic



Performance Charts

HJK-19LH+ HJK-19LH

