

High IP3

Frequency Mixer

Level 17 (LO Power +17 dBm) 120 to 260 MHz

HJK-261H+



CASE STYLE: TTT881
PRICE: \$8.95 ea. QTY. (10)

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

Maximum Ratings

Operating Temperature	-40°C to 85°C
Storage Temperature	-55°C to 100°C
LO Power	+19 dBm
RF Power	+20 dBm

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

Pad Connections

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

Features

- high IP3, 30 dBm typ.
- excellent L-R isolation, 55 dB typ.;
- L-I isolation, 37 dB typ.

Applications

- base stations
- amateur radio
- aeronautical
- mobile radio
- radar
- emergency

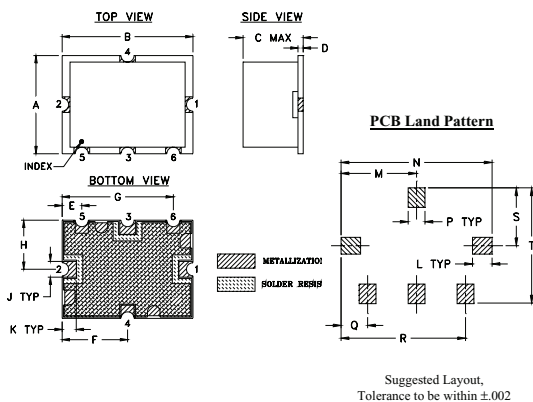
Electrical Specifications at 25°C

Parameter	Min.	Typ.	Max.	Unit
Frequency Range, RF	120	—	260	MHz
Frequency Range, LO	190	—	330	MHz
Frequency Range, IF	10	—	150	MHz
Conversion Loss	—	7.1	8.5	dB
LO to RF Isolation	45	55	—	dB
LO to IF Isolation	30	37	—	dB
IP3	—	30	—	dBm
RF Input Power at 1 dB Compression	—	+14	—	dBm

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 +17dBm	LO +17dBm	LO +17dBm	LO +17dBm	LO +17dBm
120.0	190.1	6.83	61.00	45.90	2.07	31.59
136.0	206.1	6.85	59.18	43.59	2.05	32.64
146.0	216.1	6.95	57.55	42.12	2.09	33.14
156.0	226.1	6.78	56.37	40.85	2.11	34.33
161.0	231.1	6.58	55.91	40.25	2.11	35.11
174.0	244.1	6.50	55.48	38.78	2.07	36.14
184.0	254.1	6.64	55.75	38.39	2.07	36.04
194.0	264.1	6.80	55.72	37.75	2.08	37.31
214.0	284.1	6.66	54.99	37.36	2.04	35.67
224.0	294.1	6.53	55.51	37.49	1.98	35.53
244.0	314.1	6.75	57.80	38.90	1.94	33.40
264.0	334.1	6.84	59.95	40.10	1.90	32.28

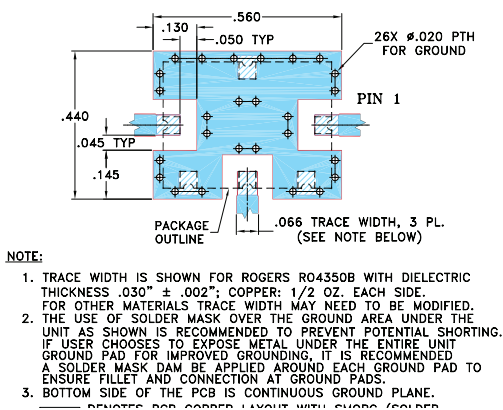
Outline Drawing



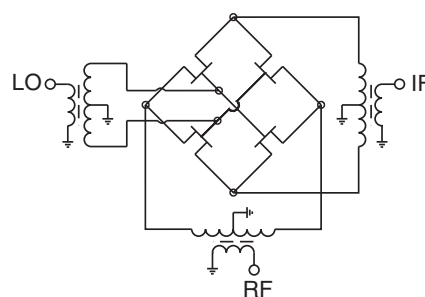
Outline Dimensions (inch)

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	

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



Electrical Schematic



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For detailed performance specs & shopping online see web site

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