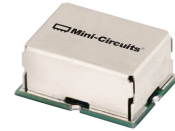


High IP3

# Frequency Mixer

## HJK-261MH+

Level 13 (LO Power +13 dBm) 120 to 260 MHz



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

### 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, 27 dBm typ.
- excellent L-R isolation, 55 dB typ.;
- L-I isolation, 37 dB typ.

### Applications

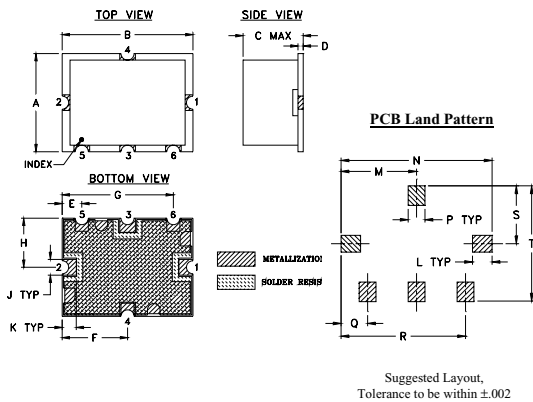
- base stations
- amateur radio
- aeronautical
- mobil radio
- radar
- emergency

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

### 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	—	7.2	8.8	dB
LO to RF Isolation	45	55	—	dB
LO to IF Isolation	30	37	—	dB
IP3	—	27	—	dBm
RF Input Power at 1 dB Compression	—	+14	—	dBm

### Outline Drawing



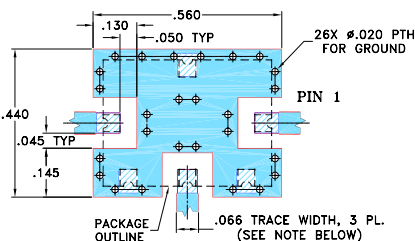
### Outline Dimensions (inch)

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

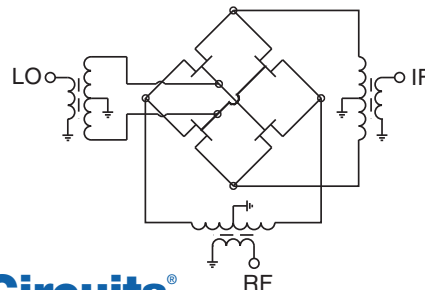
### Demo Board MCL P/N: TB-12 Suggested PCB Layout (PL-079)



### 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 +13dBm	LO +13dBm	LO +13dBm	LO +13dBm	LO +13dBm	LO +13dBm
120.00	190.10	6.95	62.47	45.63	1.97	3.62	27.09
131.00	201.10	6.95	61.64	44.22	1.95	3.49	27.78
136.00	206.10	6.99	60.92	43.34	1.96	3.42	28.30
141.00	211.10	7.09	60.20	42.60	1.97	3.34	28.94
146.00	216.10	7.07	59.53	41.88	1.99	3.24	29.15
151.00	221.10	7.00	58.96	41.21	2.01	3.13	29.68
156.00	226.10	6.90	58.43	40.59	2.03	3.00	29.65
161.00	231.10	6.71	58.09	39.98	2.03	2.84	30.10
166.00	236.10	6.65	57.71	39.24	2.01	2.67	30.12
171.00	241.10	6.61	57.53	38.71	2.00	2.48	30.30
174.00	244.10	6.61	57.37	38.53	1.99	2.36	30.51
184.00	254.10	6.73	57.36	38.04	1.98	1.94	31.45
194.00	264.10	6.89	57.50	37.39	1.98	1.56	31.84
204.00	274.10	6.91	57.52	37.05	1.98	1.32	31.54
214.00	284.10	6.76	58.15	37.37	1.96	1.35	31.37
224.00	294.10	6.67	59.64	37.60	1.91	1.55	30.70
234.00	304.10	6.70	61.43	38.48	1.88	1.78	30.08
244.00	314.10	6.89	62.87	39.08	1.87	1.99	28.75
254.00	324.10	6.99	64.47	39.58	1.85	2.18	27.66
264.00	334.10	7.00	66.32	40.32	1.81	2.33	26.86

### Electrical Schematic



For detailed performance specs & shopping online see web site

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IF/RF MICROWAVE COMPONENTS

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