

Surface Mount Frequency Mixer

LRMS-20J+ LRMS-20J

Level 10 (LO Power +10dBm) 1500 to 2000 MHz



CASE STYLE: QQ569
PRICE: \$8.25 ea. QTY (1-9)

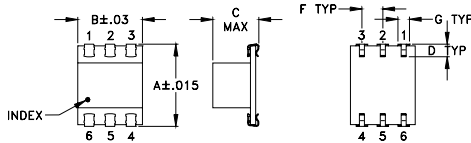
Maximum Ratings

Operating Temperature	-40°C to 85°C
Storage Temperature	-55°C to 100°C
RF Power	50mW
IF Current	40mA

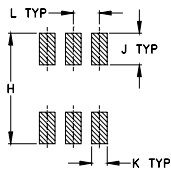
Pin Connections

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

Outline Drawing



PCB Land Pattern

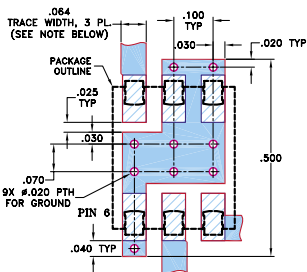


Suggested Layout,
Tolerance to be within ± 0.02

Outline Dimensions (inch/mm)

A	B	C	D	E	F	G
.390	.31	.225	.060	--	.100	.045
9.91	7.87	5.72	1.52	--	2.54	1.14
H	J	K	L	M	wt	
.420	.120	.060	.100	--	grams	
10.67	3.05	1.52	2.54	--	0.50	

Demo Board MCL P/N: TB-44 Suggested PCB Layout (PL-083)



- NOTES: 1. TRACE WIDTH IS SHOWN FOR ROGERS RO4350B WITH DIELECTRIC THICKNESS $0.030" \pm 0.002"$; COPPER: 1/2 OZ. EACH SIDE. FOR OTHER MATERIALS TRACE WIDTH MAY NEED TO BE MODIFIED.
2. BOTTOM SIDE OF THE PCB IS CONTINUOUS GROUND PLANE.

Features

- low conversion loss, 5.0 dB typ.
- aqueous washable
- J-leads for strain relief

Applications

- PCS
- GPS

+ 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

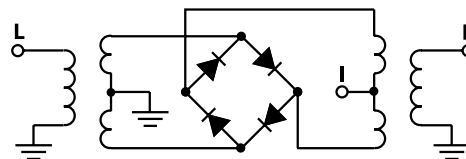
FREQUENCY (MHz)	CONVERSION LOSS (dB)	LO-RF ISOLATION (dB)	LO-IF ISOLATION (dB)	IP3 at center band (dBm)
LO/RF $f_L - f_U$	\bar{X} σ Max.	Typ. Min.	Typ. Min.	Typ.
1500-2000 DC-500	5.0 .15 7.5	35 22	26 18	18

1 dB COMP.: +1 dBm typ.

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
1500.00	1530.00	6.92	35.20	24.30	1.60	3.21
1573.53	1603.53	6.84	34.80	25.30	1.55	3.44
1676.47	1706.47	5.88	38.70	26.20	1.47	3.16
1779.41	1809.41	5.60	37.10	26.50	1.40	2.96
1882.35	1912.35	5.78	35.50	26.60	1.37	2.55
1985.29	2015.29	6.53	34.80	28.10	1.43	3.44
2000.00	2030.00	6.68	34.40	28.20	1.42	3.57

Electrical Schematic



Performance Charts

