

Frequency Mixer

Level 13 (LO Power +13 dBm) 5 to 2500 MHz

ROK-186MH+



CASE STYLE: QQ96

PRICE: \$50.20 ea. QTY (1-9)

Maximum Ratings

Operating Temperature	-55°C to 100°C
Storage Temperature	-55°C to 100°C
RF Power	200mW
IF Current	40mA

Pin Connections

LO	5
RF	11
IF	2
GROUND	1,3,4,6,7,8,9,10,12
CASE GROUND	1,3,4,6,7,8,9,10,12

Features

- low conversion loss, 6.57 dB typ.
- wideband, 5 to 2500 MHz
- hermetically sealed

Applications

- VHF/UHF
- instrumentation
- GPS
- PCS/DCS

+ 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

FREQUENCY (MHz)		CONVERSION LOSS (dB)				LO-RF ISOLATION (dB)						LO-IF ISOLATION (dB)					
LO/RF	IF	Mid-Band m		Total Range Max.		L	M	U				L	M	U			
f_L - f_U		$\bar{X}$	σ	Max.	Max.	Typ.	Min.	Typ.	Min.	Typ.	Min.	Typ.	Min.	Typ.	Min.	Typ.	Min.
5-2500	10-1000	6.57	0.11	8.5	9.5	33	25	35	25	25	20	33	20	31	25	27	20

1 dB COMP.: +9 dBm typ.

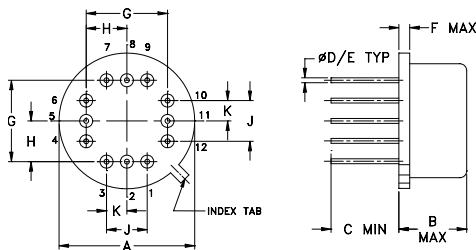
L = low range [f_L to $10 f_L$] M = mid range [$10 f_L$ to $f_U/2$] U = upper range [$f_U/2$ to f_U]

m = mid band [$2f_L$ to $f_U/2$]

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 +13dBm	LO +13dBm	LO +13dBm	LO +13dBm	LO +13dBm
5.00	35.00	5.25	41.9	49.5	1.35	1.46
10.00	40.00	5.14	41.9	49.6	1.35	1.45
50.00	80.00	5.26	42.2	50.2	1.34	1.48
100.00	130.00	5.33	42.4	50.9	1.37	1.50
208.60	238.60	5.65	43.2	54.4	1.54	1.49
417.09	447.09	5.88	46.8	65.7	2.01	1.46
500.00	530.00	6.03	48.9	61.2	2.25	1.48
625.59	655.59	6.28	50.9	54.1	2.55	1.51
834.08	864.08	6.33	48.9	48.5	2.76	1.73
1000.00	1030.00	6.45	44.2	42.7	2.96	1.81
1042.58	1072.58	6.33	43.1	42.1	2.80	1.77
1251.07	1281.07	6.09	39.5	40.3	2.52	1.66
1459.57	1489.57	6.34	38.0	40.0	2.30	1.58
1500.00	1530.00	6.31	38.2	39.3	2.25	1.53
1668.06	1698.06	6.86	36.5	37.4	2.04	1.56
1876.56	1906.56	6.95	35.2	38.0	1.91	1.59
2000.00	2030.00	6.79	34.2	38.1	1.89	1.61
2085.05	2115.05	6.83	33.3	38.2	1.70	1.61
2293.55	2323.55	7.04	32.5	37.4	1.47	1.65
2470.00	2500.00	7.06	31.8	34.5	1.26	1.68
2500.00	2530.00	7.09	31.2	33.5	1.23	1.70

Outline Drawing

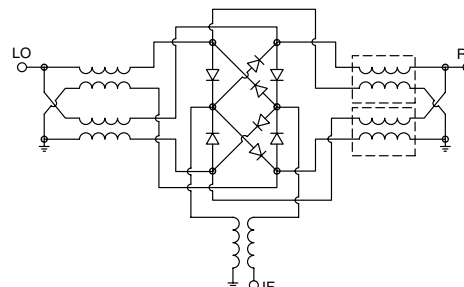


Outline Dimensions (inch)

A	B	C	D	E	F
.600	.250	.25	.016	.020	.04
15.24	6.35	6.35	0.41	0.51	1.02

G	H	J	K	wt
.400	.200	.200	.100	grams
10.16	5.08	5.08	2.54	4.00

Electrical Schematic



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