

Surface Mount

Frequency Mixer

Level 10 (LO Power +10dBm) 20 to 1000 MHz

JMS-2LH+
JMS-2LH



CASE STYLE: BH292

Features

- excellent L-R isolation, up to 60 dB typ.
- miniature surface mount
- J-leads for strain relief

Applications

- up & down converters for receivers & transmitters
- UHF TV
- cellular/ISM/GSM

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

See our web site for RoHS Compliance methodologies and
qualifications.

Mixer Electrical Specifications

MODEL NO.	FREQUENCY (MHz)		CONVERSION LOSS (dB)				LO-RF ISOLATION (dB)			LO-IF ISOLATION (dB)			IP3@ center band Typ. (dBm)	E FACTOR
	LO/RF $f_c - f_u$	IF	Mid-Band $\bar{x}$	m	σ	Total Range Max.	L Typ. Min.	M Typ. Min.	U Typ. Min.	L Typ. Min.	M Typ. Min.	U Typ. Min.		
JMS-2LH(+)	20-1000	DC-1000	6.5	0.1	7.5	9.0	60	40	25	15	40	20	15	20

1 dB COMP.: +5 dBm typ.
* Phase detection, positive polarity
E= [IP3(dBm)-LO Power(dBm)]/10

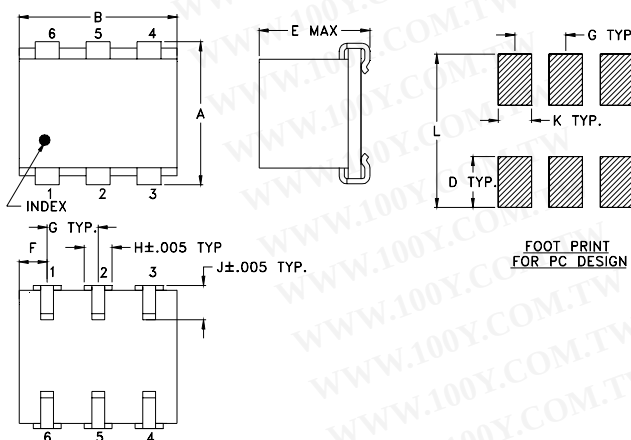
Pin Connections

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

Maximum Ratings

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

Outline Drawing

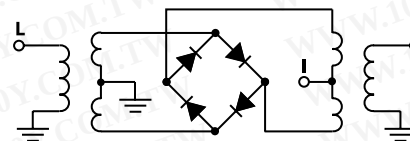


Outline Dimensions (inch/mm)

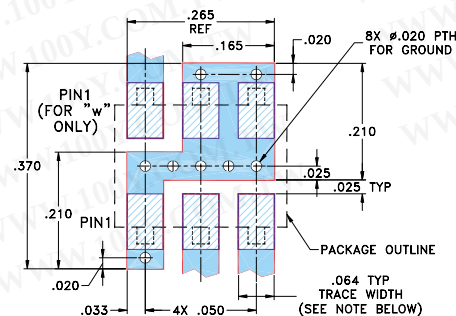
A	B	C	D	E	F	G	H	J	K	L	wt.
.280	.31	—	.100	.225	.055	.100	.047	.065	.065	.300	grams
7.11	7.87	—	2.54	5.72	1.40	2.54	1.19	1.65	1.65	7.62	.45

勝特力材料 886-3-5753170
勝特力电子(上海) 86-21-54151736
勝特力电子(深圳) 86-755-83298787
[Http://www.100y.com.tw](http://www.100y.com.tw)

electrical schematic



Demo Board MCL P/N: TB-03 Suggested PCB Layout (PL-052)



NOTE: TRACE WIDTH IS SHOWN FOR ROGERS RO4350
WITH DIELECTRIC THICKNESS .030" ± .002".
COPPER: 1/2 OZ. EACH SIDE.
FOR OTHER MATERIALS TRACE WIDTH MAY NEED
TO BE MODIFIED.

- DENOTES PCB COPPER LAYOUT
- DENOTES COPPER LAND PATTERN FREE OF SOLDER MASK

Typical Performance Data

Frequency		Conversion Loss (dB)	Isolation L-R (dB)	Isolation L-I (dB)	VSWR RF port (:1)	VSWR LO port (:1)
RF MHz	LO MHz	LO +10dBm	LO +10dBm	LO +10dBm	LO +10dBm	LO +10dBm
5.00	35.00	6.77	63.03	59.74	1.36	2.36
10.00	40.00	6.92	60.63	54.85	1.24	2.34
20.00	50.00	6.93	56.56	48.96	1.20	2.44
35.15	65.15	6.82	52.70	44.78	1.20	2.42
50.00	80.00	6.80	50.21	42.03	1.20	2.36
65.30	95.30	6.77	48.42	40.14	1.20	2.31
100.00	70.00	6.71	46.01	37.18	1.20	2.32
155.76	125.76	6.67	44.69	34.75	1.22	2.34
200.00	170.00	6.65	42.20	33.10	1.24	2.28
246.21	216.21	6.76	40.22	31.46	1.26	2.29
306.52	276.52	6.78	37.07	29.28	1.31	2.32
366.82	336.82	6.62	33.94	26.64	1.37	2.33
427.12	397.12	6.68	30.94	24.95	1.44	2.40
500.00	470.00	6.70	28.40	22.81	1.54	2.47
577.88	547.88	6.71	25.77	20.52	1.68	2.54
668.33	638.33	7.07	23.71	18.54	1.84	2.67
758.79	728.79	7.63	21.83	16.38	2.03	2.83
849.24	819.24	8.30	20.52	14.77	2.27	2.95
909.54	879.54	8.82	20.13	14.18	2.42	2.94
1000.00	970.00	9.17	19.83	12.95	2.69	2.91

Performance Charts

