

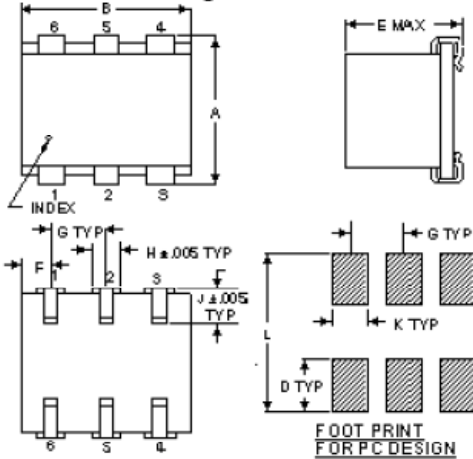
Frequency Mixers

LO Power Level 10 dBm

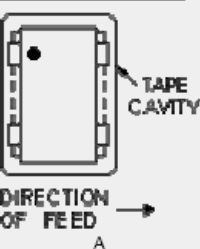
Pin Configuration

Port	LO	RF	IF	Gnd	Ext.	Case	Gnd	Not Used
ht	6	3	2	1,4,5	-	-	-	-

Outline Drawing



Case Style - BH292 (inch,mm) weight: 0.45 grams.

UNIT ORIENTATION									
									
	B	C	D	E	F	G	H	J	
	.280	.31	.100	.225	.055	.100	.047	.065	
	7.112	7.874	2.540	5.715	1.397	2.540	1.194	1.651	
K		L	M	N	P	Q	R	S	T
	.065	.300							
	1.651	7.620							

Tolerance: .x ± .1 .xx ± .03 .xxx ± .015 inch.

Material and Finish:

Case material: ceramic. Lead finish: tin-lead plate or tin plate

Packaging:

Packaging information:

Tape Width(mm): 16
Reel Size(inches): 13
Device Cavity Pitch(mm): 12
Devices Per Reel: 500

Notes:

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- Prices and Specifications subjects to change without notice.



JMS-5LH

Electrical Specifications

JMS-5LH		LO Power Level 10 dBm									
Frequency MHz		Max. Conversion Loss dB			Min. LO-RF Isolation dB			Min. LO-IF Isolation dB			
LO/RF	IF	Mid-Band Total Range			L	M	U	L	M	U	
5.00-1500	DC-1000	8.0	9.5		40	25	20	40	14	6	
L=low range(f_L to $10f_L$) M=mid range($10f_L$ to $f_U/2$) U=upper range											

L=low range(f_L to $10f_L$) M=mid range($10f_L$ to $f_U/2$) U=upper range($f_U/2$ to f_U)

Typical Performance Data

JMS-5LH		Conversion Loss (dB)			ISO	Isolation L-R (dB)			Isolation L-I (dB)		
RF MHz	LO MHz	LO +7 dBm	LO +10 dBm	LO +13 dBm	LO (MHz)	LO +7 dBm	LO +10 dBm	LO +13 dBm	LO +7 dBm	LO +10 dBm	LO +13 dBm
10.000	40.000	6.19	5.72	5.52	10.000	67.91	67.66	67.05	67.81	66.96	61.29
20.000	50.000	5.96	5.51	5.37	20.000	66.98	65.38	63.71	64.68	62.08	55.74
50.000	80.000	5.72	5.28	5.12	50.000	67.77	62.52	59.92	58.17	56.44	48.86
100.000	70.000	5.66	5.24	5.10	100.000	81.27	60.56	56.90	52.26	50.66	43.46
154.190	124.194	5.68	5.27	5.13	154.190	63.60	57.69	53.49	48.91	46.95	39.45
200.000	170.000	5.64	5.26	5.14	200.000	55.37	53.98	50.86	44.65	43.78	36.46
298.390	263.387	5.83	5.39	5.21	298.390	45.53	46.15	45.38	38.88	37.49	31.95
442.580	412.581	6.36	5.83	5.59	442.580	37.69	38.38	38.14	33.20	30.46	26.40
500.000	470.000	6.53	6.00	5.59	500.000	35.47	36.28	36.34	31.00	28.19	24.71
586.770	556.774	6.76	6.07	5.62	536.770	32.75	33.52	33.72	27.63	24.91	22.18
730.970	700.968	7.69	6.90	6.39	730.970	29.16	30.15	30.59	22.27	20.68	18.69
750.000	720.000	7.35	6.57	6.11	750.000	28.86	29.88	30.41	21.68	20.05	18.29
875.160	845.161	7.75	7.15	6.81	875.160	27.02	28.44	29.28	19.06	16.93	15.36
1000.000	970.000	8.13	7.62	7.23	1000.000	25.85	27.37	28.55	16.88	15.37	13.87
1019.350	989.355	7.41	6.91	6.57	1019.350	25.49	27.03	28.32	16.54	15.01	13.57
1163.550	1133.548	8.22	7.82	7.69	1163.550	24.22	25.69	26.85	13.64	12.77	11.93
1259.680	1229.677	8.28	7.99	7.82	1259.680	23.64	25.02	26.19	12.44	11.85	11.17
1403.870	1373.871	8.44	7.89	7.76	1403.870	22.12	23.59	24.60	10.81	10.74	10.31
1451.940	1421.936	8.80	8.03	7.83	1451.940	21.66	23.18	24.29	10.61	10.63	10.35
1500.000	1470.000	9.07	8.11	7.81	1500.000	21.18	22.62	23.79	10.38	10.48	10.23

RF/LO	VSWR RF port						IF	VSWR IF port			Ø detection		
FREQ. (MHz)	LO +7 dBm	LO +10 dBm	LO +13 dBm	LO +7 dBm	LO +10 dBm	LO +13 dBm	FREQ. (MHz)	LO +7 dBm	LO +10 dBm	LO +13 dBm	FREQ. MHz	max.DC output mV	DC offset mV
10.000	1.67	1.65	1.71	1.89	2.80	4.01	10.000	1.10	1.12	1.35	10.00	328.40	0.06
20.000	1.30	1.30	1.33	1.85	2.77	4.01	20.000	1.10	1.13	1.35	20.00	331.20	0.04
50.000	1.06	1.04	1.04	1.96	2.82	4.19	50.000	1.15	1.16	1.37	50.00	339.10	0.09
100.000	1.26	1.21	1.22	1.87	2.67	3.92	100.000	1.27	1.21	1.37	100.00	333.40	0.04
154.190	1.54	1.47	1.50	1.84	2.56	3.67	106.130	1.29	1.22	1.37	106.13	328.80	0.08
200.000	1.80	1.70	1.74	1.78	2.44	3.33	200.000	1.56	1.39	1.40	200.00	325.60	0.18
298.390	2.34	2.15	2.24	1.71	2.24	2.90	202.260	1.56	1.39	1.40	250.32	325.60	0.65