

Surface Mount

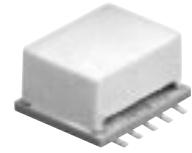
Frequency Mixer

Level 10 (LO Power +10 dBm) 500 to 3500 MHz

NEW!

MCA-35LH

(patent pending)



CASE STYLE: DM842
PRICE: \$6.95 Qty. (10-49)

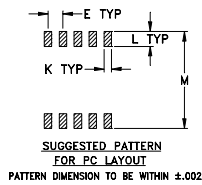
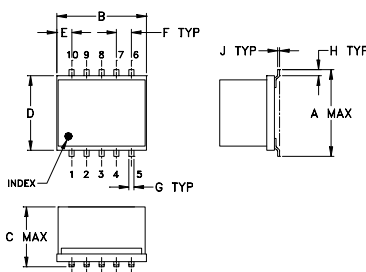
Maximum Ratings

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

Pin Configuration

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

Outline Drawing



Outline Dimensions (inch)

A	B	C	D	E	F	G	H	J
.300	.30	.200	.250	.050	.050	.017	.020	.006
7.62	7.62	5.08	6.35	1.27	1.27	0.43	0.51	0.15
K	L	M	wt.					
.025	.050	.325	grams					
0.64	1.27	8.26	.50					

Features

- wide bandwidth, 500-3500 MHz
- excellent isolation, 30 dB typ. (1800-2500 MHz)
- good matching 2:1 VSWR (over 1800-2800 MHz)
- small size 0.25"x0.3"x0.2"

Applications

- cellular
- PCN
- PDC
- DECT
- PHS



Electrical Specifications

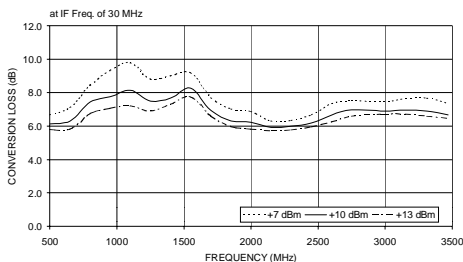
FREQUENCY (MHz)	CONVERSION LOSS (dB)	LO-RF ISOLATION (dB)		LO-IF ISOLATION (dB)		IP3 @ center band Typ. (dBm)	E FACTOR
		Typ.	Min.	Typ.	Min.		
500-3500	10-1500	6.9	0.1	8.9			
500-800	10-300	6.3	0.1	7.7	18	11	
800-1000	10-200	7.1	0.1	8.6	24	17	0.6
1000-1800	10-800	7.3	0.1	8.9	29	20	0.8
1800-2000	10-200	6.3	0.1	8.2	32	25	0.6
1800-2500	10-700	5.8	0.1	8.2	32	22	0.6
2000-3500	10-1500	6.5	0.1	8.7	29	17	0.6

* see individual band specs.
1dB Compr.: +6 dBm typ.
E = [IP3(dBm)-LO Power(dBm)]/10

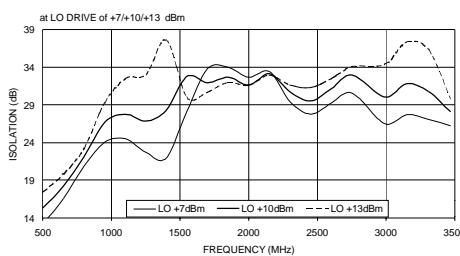
Typical Performance Data

Frequency		Conversion Loss (dB)	Isolation L-R (dB)	Isolation L-I (dB)	VSWR LO port (-1)	VSWR RF port (-1)
RF MHz	LO MHz	LO +10dBm	LO +10dBm	LO +10dBm	LO +10dBm	LO +10dBm
500.00	530.00	6.12	15.33	32.31	1.32	1.54
650.00	680.00	6.31	18.22	30.48	1.21	2.13
800.00	830.00	7.43	22.12	29.36	1.45	3.29
950.00	980.00	7.75	26.67	28.55	1.70	4.00
1100.00	1130.00	8.13	27.76	28.07	1.89	4.56
1250.00	1280.00	7.50	26.82	27.33	1.98	4.25
1400.00	1430.00	7.69	28.27	26.45	2.14	2.75
1550.00	1580.00	8.26	32.79	27.63	2.08	2.26
1700.00	1730.00	6.92	31.93	29.46	1.88	2.13
1850.00	1880.00	6.31	32.65	31.68	1.84	1.98
2000.00	2030.00	6.24	31.65	31.10	1.95	1.56
2150.00	2180.00	5.92	33.11	31.72	1.69	1.18
2300.00	2330.00	5.99	30.74	30.29	1.62	1.19
2450.00	2480.00	6.19	29.52	28.44	1.71	1.56
2600.00	2630.00	6.68	31.11	30.02	1.69	2.14
2750.00	2780.00	6.99	32.97	28.86	1.68	2.71
2990.00	3020.00	6.91	30.02	27.27	2.06	3.35
3150.00	3180.00	6.96	31.79	25.50	2.09	3.70
3310.00	3340.00	6.89	30.76	25.77	1.87	3.20
3470.00	3500.00	6.68	28.08	24.57	1.70	2.64

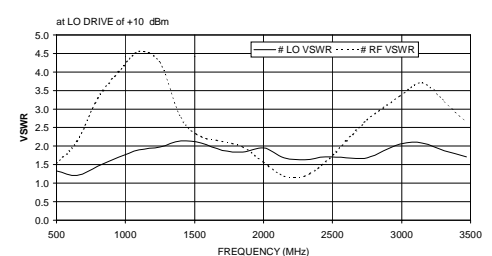
MCA-35LH CONVERSION LOSS



MCA-35LH ISOLATION L-R



MCA-35LH VSWR



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