

# Surface Mount Frequency Mixer

Level 13 (LO Power +13 dBm) 800 to 1000 MHz

**NEW!**

**ADE-10MH**



CASE STYLE: CD636  
PRICE: \$6.95ea.  
QTY.: (10-49)

## Maximum Ratings

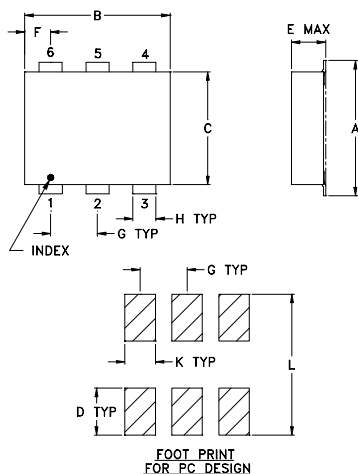
Operating Temperature	-20°C to 85°C
Storage Temperature	-55°C to 100°C
RF Power	200mW
IF Current	40mA

## Pin Configuration

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

EVALUATION BOARD P/N: TB-03

## Outline Drawing



## Outline Dimensions (inch mm)

A	B	C	D	E	F	G	H
.280	.310	.220	.100	.162	.055	.100	.030
7.11	7.87	5.58	2.54	4.11	1.40	2.54	0.76

J	K	L	wt.
—	.065	.300	grams
—	1.65	7.62	.45

## Features

- low conversion loss, 7.0 dB typ.
- excellent L-R isolation, 34 dB typ.
- excellent L-I isolation, 29 dB typ.
- high IP3, 26 dBm typ.
- excellent match on all ports
- solder plated leads for excellent solderability

## Applications

- GSM

## Electrical Specifications

FREQUENCY (MHz)	CONVERSION LOSS (dB)	LO-RF ISOLATION (dB)			LO-IF ISOLATION (dB)			IP3@ center band Typ. (dBm)	E FACTOR							
		L	M	U	L	M	U									
800-1000	10-200	7.0	0.2	—	8.5	—	—	34	20	—	—	29	20	—	26	1.3

1dB Compr.: +5 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 +13dBm	LO +13dBm	LO +13dBm	LO +13dBm	LO +13dBm
800.00	830.00	6.96	37.49	27.09	1.29	1.66
810.00	840.00	6.94	37.54	27.08	1.30	1.68
820.00	850.00	6.91	37.55	27.04	1.31	1.70
830.00	860.00	6.91	37.57	27.06	1.31	1.71
840.00	870.00	6.85	37.58	27.07	1.31	1.71
850.00	880.00	6.87	37.54	27.04	1.31	1.72
860.00	890.00	6.90	37.55	27.10	1.30	1.71
880.00	910.00	6.77	37.54	27.17	1.29	1.74
890.00	920.00	6.83	37.52	27.26	1.29	1.75
900.00	930.00	6.95	37.49	27.34	1.29	1.76
910.00	940.00	6.99	37.42	27.37	1.30	1.77
920.00	950.00	6.88	37.30	27.41	1.30	1.78
930.00	960.00	6.78	37.22	27.44	1.30	1.77
940.00	970.00	6.79	37.06	27.45	1.29	1.77
950.00	980.00	6.84	36.95	27.47	1.29	1.77
960.00	990.00	6.87	36.90	27.53	1.28	1.79
970.00	1000.00	6.90	36.76	27.54	1.28	1.81
980.00	1010.00	6.90	36.67	27.61	1.28	1.82
990.00	1020.00	6.87	36.58	27.65	1.28	1.82
1000.00	1030.00	6.80	36.50	27.72	1.29	1.82

