

Surface Mount Frequency Mixer

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

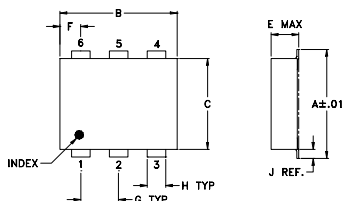
Maximum Ratings

Operating Temperature	-40°C to 85°C
Storage Temperature	-55°C to 100°C
RF Power	200mW
IF Current	40mA
Permanent damage may occur if any of these limits are exceeded.	

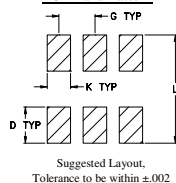
Pin Connections

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

Outline Drawing



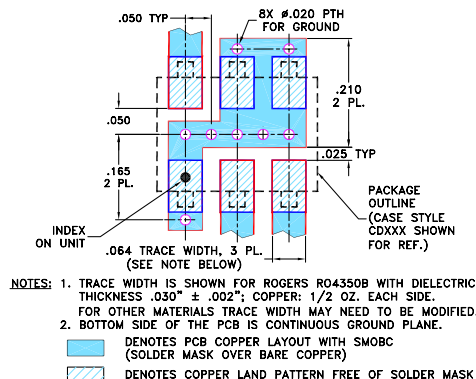
PCB Land Pattern



Outline Dimensions (inch)

A	B	C	D	E	F	G
.272	.310	.220	.100	.162	.055	.100
6.91	7.87	5.59	2.54	4.11	1.40	2.54
H	J	K	L	wt		
.030	.026	.065	.300	grams		
0.76	0.66	1.65	7.62	0.25		

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



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.
- aqueous washable
- protected by U.S. Patent 6,133,525

Applications

- GSM

ADE-10MH+ ADE-10MH



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

+RoHS Compliant

The +Suffix identifies RoHS Compliance. See our web site for RoHS Compliance methodologies and qualifications



Available Tape and Reel
at no extra cost

Reel Size	Devices/Reel
7"	10, 20, 50, 100, 200, 500
13"	500, 1000

Electrical Specifications

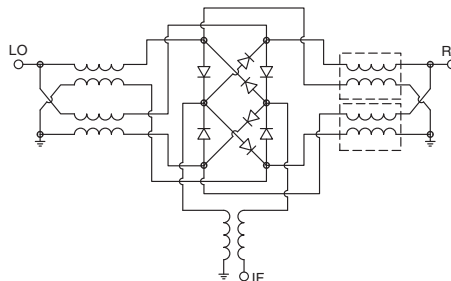
FREQUENCY (MHz)		CONVERSION LOSS (dB)			LO-RF ISOLATION (dB)		LO-IF ISOLATION (dB)		IP3 at center band (dBm)
LO/RF	IF	$\bar{X}$	σ	Max.	Typ.	Min.	Typ.	Min.	
800-1000	10-200	7.0	0.20	8.5	34	20	29	20	26

1 dB COMP.: +9 dBm typ.

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

Electrical Schematic



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ISO 9001 ISO 14001 AS 9100 CERTIFIED
The Design Engineers Search Engine Provides ACTUAL Data Instantly at minicircuits.com
IF/RF MICROWAVE COMPONENTS

For detailed performance specs
& shopping online see web site

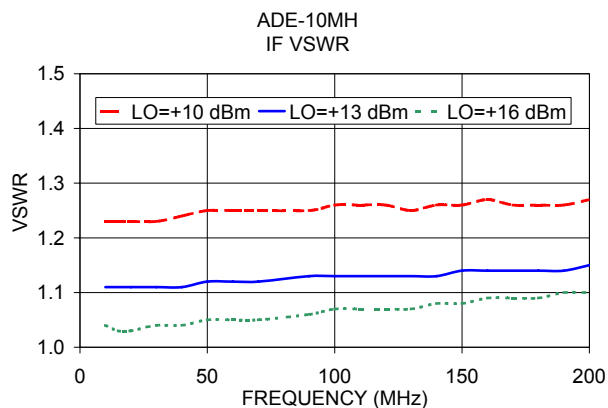
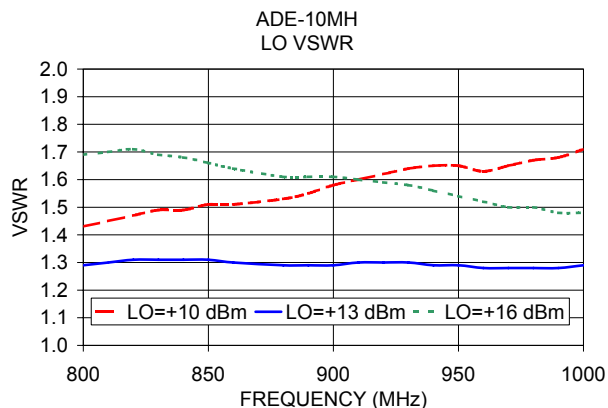
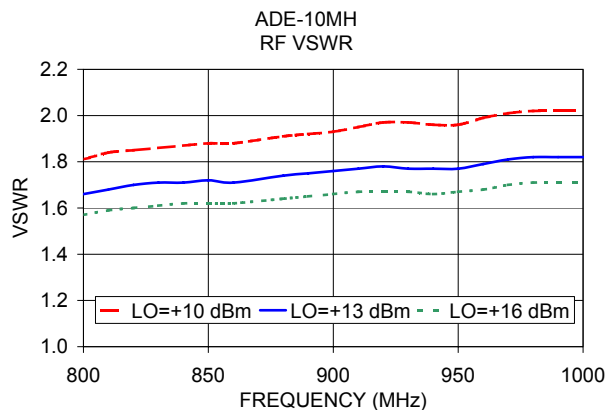
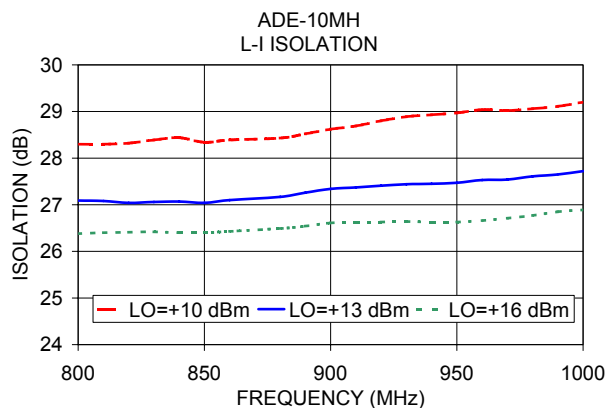
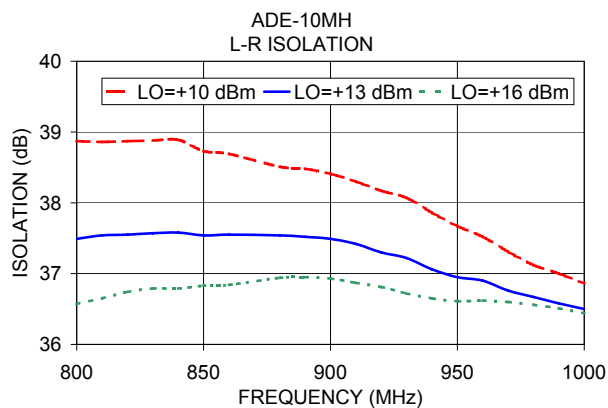
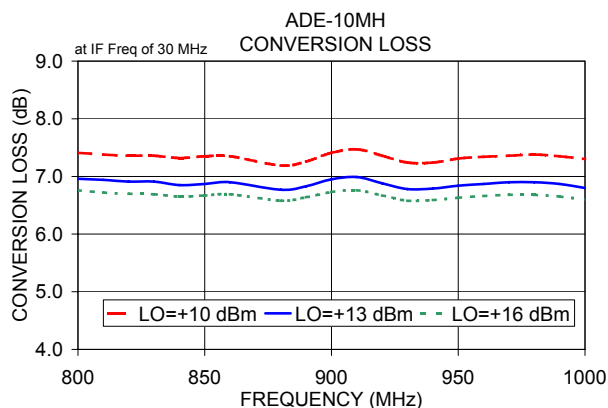
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Performance Charts

ADE-10MH+ ADE-10MH



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For detailed performance specs
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