

Frequency Mixers

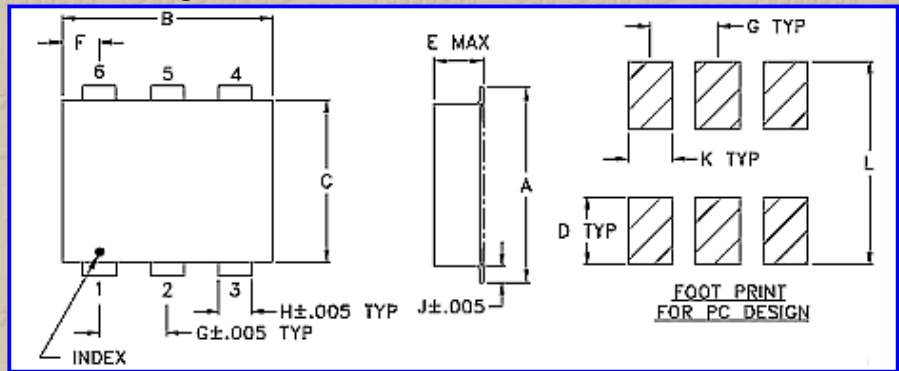
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LO Power Level 17 dBm

Pin Configuration

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

Outline Drawing



Case Style - CD542 (inch,mm) weight: 0.2 grams.

A	B	C	D	E	F	G	H	J
.280	.310	.220	.100	.112	.055	.100	.030	.030
7.112	7.874	5.588	2.540	2.845	1.397	2.540	0.762	0.762
K	L	M	N	P	Q	R	S	T
.065	.300							
1.651	7.620							

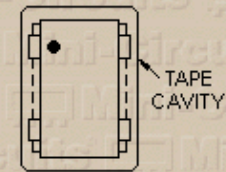
Tolerance: .x ± .1 .xx ± .03 .xxx ± .015 inch.

Material and Finish:

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

Packaging:

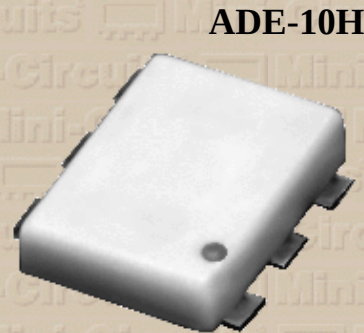
UNIT ORIENTATION



Packaging information:
Tape Width(mm): 16
Reel Size(inches): 13
Device Cavity Pitch(mm): 12
Devices Per Reel: 1000

Notes:

- Absolute maximum power, voltage and current ratings:
 - RF power, 200mW
 - Peak IF current, 40mA
- For Surface Mount Environmental Specifications, please click [here](#).
- UP TO +14 dBm RF
- General Quality Control Procedures and Environmental Specifications are given in [Mini-Circuits Guarantees Quality](#). Hi-Rel, MIL description are given in [Hi-Rel and MIL](#).
- Prices and Specifications subjects to change without notice.



ADE-10H

Electrical Specifications

ADE-10H LO Power Level 17 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
400-1000	DC-500		8.5	29	29	29	17	17	17

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

ADE-10H		Conversion Loss (dB)			ISO	Isolation L-R (dB)			Isolation L-I (dB)		
RF MHz	LO MHz	LO +14 dBm	LO +17 dBm	LO +20 dBm	LO (MHz)	LO +14 dBm	LO +17 dBm	LO +20 dBm	LO +14 dBm	LO +17 dBm	LO +20 dBm
400.000	430.000	6.93	6.43	6.13	430.000	39.50	39.60	40.40	27.30	29.90	32.40
442.857	472.857	6.66	6.26	6.06	472.857	38.50	39.50	41.00	26.40	28.80	30.80
485.714	515.714	6.63	6.23	5.93	515.714	37.70	38.80	40.00	26.10	28.70	30.60
500.000	530.000	6.83	6.33	6.13	530.000	37.70	39.00	40.70	25.90	28.70	30.80
528.571	558.571	6.94	6.44	6.14	558.571	37.00	38.90	41.90	25.10	28.20	30.80
571.429	601.429	7.10	6.60	6.20	601.429	36.10	37.50	39.40	24.20	26.60	29.50
600.000	630.000	7.17	6.77	6.47	630.000	35.80	37.30	39.60	24.10	26.10	28.20
614.286	644.286	7.06	6.66	6.46	644.286	35.80	37.30	39.80	24.00	25.80	27.80
657.143	687.143	6.92	6.62	6.32	687.143	35.60	36.70	38.50	23.80	25.20	26.60
700.000	730.000	7.21	6.81	6.41	730.000	35.70	38.00	41.30	24.00	25.50	26.60
742.857	772.857	7.12	6.52	6.12	772.857	35.50	37.70	40.10	24.00	25.00	26.10
750.000	780.000	7.09	6.59	6.19	780.000	35.60	37.90	40.30	24.10	25.10	26.10
785.714	815.714	7.05	6.45	6.05	815.714	35.40	37.70	40.60	24.20	25.70	26.90
800.000	830.000	7.22	6.52	6.22	830.000	35.60	37.70	39.20	23.90	25.80	26.90
828.571	858.571	7.07	6.47	6.17	858.571	35.60	36.70	38.20	23.70	25.50	26.20
871.429	901.429	8.11	6.91	6.41	901.429	34.60	36.70	38.70	22.40	25.20	26.70
900.000	930.000	8.76	7.26	6.46	930.000	33.90	35.60	37.60	21.90	24.30	26.00
914.286	944.286	8.57	7.17	6.47	944.286	33.80	35.50	37.50	22.00	24.10	25.90
957.143	987.143	8.84	7.74	6.74	987.143	33.70	35.20	38.00	22.20	23.50	25.60
1000.000	1030.000	8.66	7.66	6.76	1030.000	33.10	34.20	36.40	22.10	22.90	24.60

RF/LO	VSWR RF port			VSWR LO port			IF	VSWR IF port		
FREQ. (MHz)	LO +14 dBm	LO +17 dBm	LO +20 dBm	LO +14 dBm	LO +17 dBm	LO +20 dBm	FREQ. (MHz)	LO +14 dBm	LO +17 dBm	LO +20 dBm
430.000	2.43	2.25	2.14	2.76	2.68	3.86	10.000	1.17	1.03	1.18
430.000	2.76	2.68	3.86	2.43	2.25	2.14	35.789	1.18	1.02	1.17
472.857	2.46	2.32	2.23	2.01	2.01	2.52	61.579	1.19	1.02	1.17
472.857	2.01	2.01	2.52	2.46	2.32	2.23	87.368	1.19	1.02	1.16
515.714	1.96	2.37	3.64	2.52	2.35	2.23	113.158	1.20	1.01	1.15
515.714	2.52	2.35	2.23	1.96	2.37	3.64	138.947	1.21	1.01	1.15
530.000	1.75	2.08	2.96	2.52	2.35	2.25	164.737	1.21	1.01	1.14
530.000	2.52	2.35	2.25	1.75	2.08	2.96	190.526	1.21	1.01	1.13
558.571	1.56	1.80	2.30	2.58	2.37	2.27	216.316	1.21	1.02	1.13
558.571	2.58	2.37	2.27	1.56	1.80	2.30	242.105	1.21	1.02	1.13

601.429	1.63	2.27	3.57	2.76	2.55	2.37	267.895	1.21	1.03	1.14
601.429	2.76	2.55	2.37	1.63	2.27	3.57	293.684	1.20	1.03	1.15
630.000	1.46	1.87	2.55	2.80	2.65	2.49	319.474	1.19	1.05	1.17
630.000	2.80	2.65	2.49	1.46	1.87	2.55	345.263	1.16	1.07	1.21
644.286	2.80	2.65	2.52	1.41	1.78	2.35	371.053	1.11	1.11	1.28
644.286	1.41	1.78	2.35	2.80	2.65	2.52	396.842	1.05	1.19	1.39
687.143	2.72	2.55	2.43	1.50	2.27	3.86	422.632	1.13	1.29	1.52
687.143	1.50	2.27	3.86	2.72	2.55	2.43	448.421	1.29	1.38	1.57
730.000	2.80	2.65	2.52	1.30	1.82	2.46	474.211	1.40	1.41	1.54
730.000	1.30	1.82	2.46	2.80	2.65	2.52	500.000	1.48	1.43	1.48

Click Above for Actual Performance Data.



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