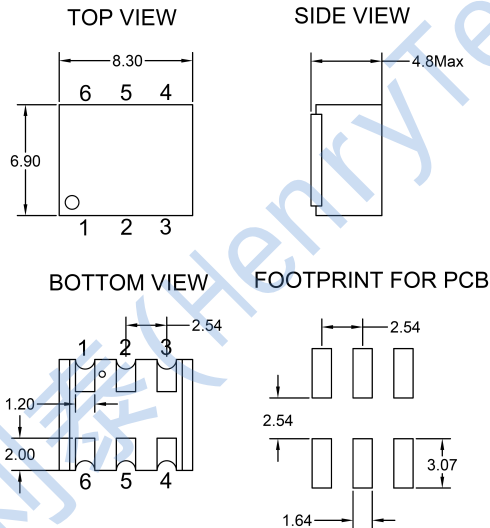




50-1000Mhz LO Power + 7 dBm Frequency Mixer

HT-ADE-12+

Mechanical Dimensions:



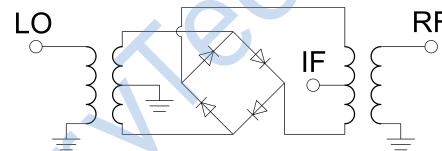
Notes:

- 1: Dimensions in mm.
- 2: Tolerance $\pm 0.3\text{mm}$ unless otherwise noted.

Ports Configuration:

IF	3
RF	4
LO(+7dBm)	6
Ground	1,2,5

Schematic:



Maximum Ratings:

Parameters	Conditions	Unit	Min	Max
RF Power		Watt		0.05
DC Current		mA		10
Operating Temperature Range		Degree Cel	-40	85
Storage Temperature Range		Degree Cel	-55	100
Moisture Sensitivity Level				1

Ordering Information:

Part Description	Details
HT-ADE-12+	800 per reel



50-1000MHz LO Power + 7 dBm Frequency Mixer

HT-ADE-12+

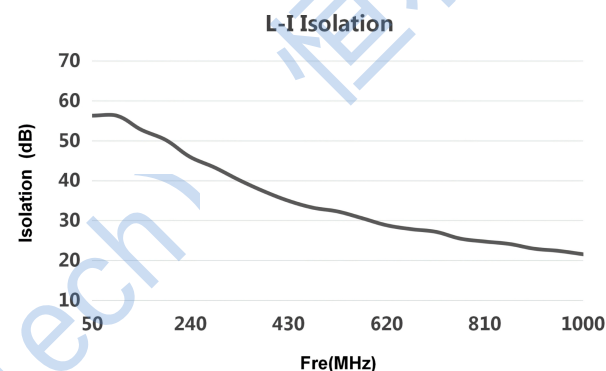
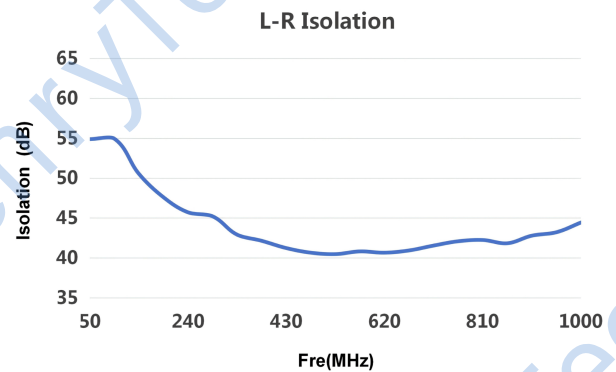
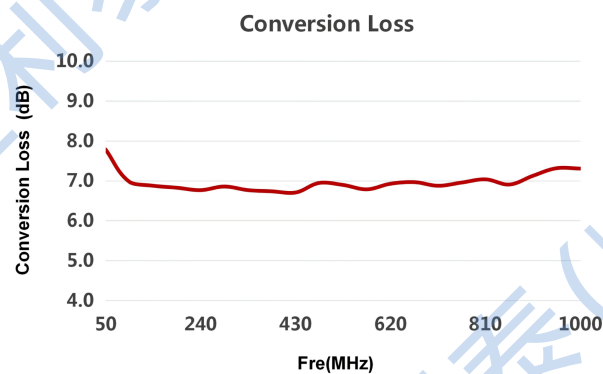
Electrical Specifications: $Z_0=50\ \Omega$, LO = +7 dBm

Parameter	Test Conditions	Unit	Min	Typical	Max
Frequency Range	-	MHz	50	~	1000
Conversion Loss	50-1000MHz	dB	-	-	9
LO-RF Isolation	50-1000MHz	dB	22	33	-
LO-IF Isolation	50-1000MHz	dB	20	32	-
P1dB	50-1000MHz	dBm	-	1	-
IP3	50-1000MHz	dBm	-	17	-

Notes:

1: Specifications guaranteed over the operating temperature range.

Typical Performance Curves:



Typical Performance Data

Frequency (MHz)		Conversion Loss(dB)	Isolation L-R(dB)	Isolation L-I(dB)
RF	LO	LO(+7dBm)	LO(+7dBm)	LO(+7dBm)
50.00	80.00	7.79	54.96	56.33
100.00	130.00	6.98	50.56	52.81
150.00	180.00	6.88	47.62	50.24
200.00	230.00	6.83	45.73	45.96
250.00	280.00	6.77	45.23	43.31
300.00	330.00	6.86	42.93	40.16
350.00	380.00	6.77	42.16	37.36
400.00	430.00	6.74	41.25	34.98
450.00	480.00	6.71	40.67	33.25
500.00	530.00	6.95	40.49	32.31
550.00	580.00	6.90	40.83	30.62
600.00	630.00	6.79	40.67	28.85
650.00	680.00	6.93	40.95	27.88
700.00	730.00	6.97	41.56	27.21
750.00	780.00	6.88	42.10	25.50
800.00	830.00	6.96	42.26	24.77
850.00	880.00	7.04	41.85	24.16
900.00	930.00	6.91	42.80	22.98
950.00	980.00	7.13	43.23	22.43
1000.00	1030.00	7.32	44.45	21.58