


# Frequency Mixers

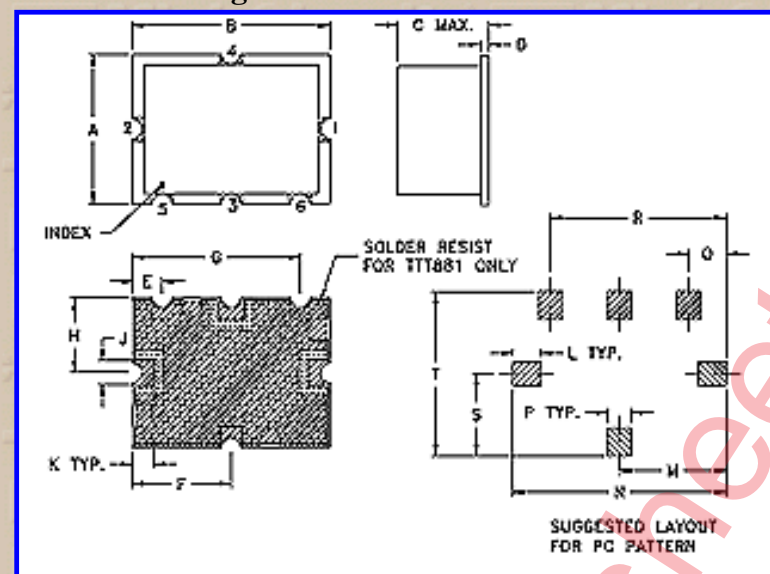
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## LO Power Level 17 dBm

### Pin Configuration

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

### Outline Drawing



### Notes:

- Non-catalog model. Please consult factory for price and delivery.
- For Surface Mount Environmental Specifications, please click [here](#).
- 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.

## SYM-ED7348/2



### Electrical Specifications

#### SYM-ED7348/2

LO Power Level 17 dBm

Frequency MHz	Conversion Loss dB	LO-RF Isolation dB			LO-IF Isolation dB		
		Mid-Band	Total Range	L M U	L M U		
500-2625	1-1500						

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

SYM-ED7348/2		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
500.000	530.000	6.33	5.66	5.32	530.000	24.66	24.17	26.16	47.66	41.00	38.32
625.000	655.000	6.33	6.00	5.66	655.000	27.16	26.33	27.67	43.33	38.83	36.82
750.000	780.000	6.51	6.18	5.84	780.000	29.67	27.50	27.99	49.17	38.33	35.16
875.000	905.000	6.64	6.31	6.14	905.000	33.00	29.33	28.67	41.66	54.50	43.00
1000.000	1030.000	6.44	6.11	5.94	1030.000	38.50	33.33	31.84	35.00	39.66	44.50
1125.000	1155.000	6.14	5.80	5.81	1155.000	43.67	39.83	39.00	32.34	34.83	36.50
1250.000	1280.000	6.21	5.70	5.54	1280.000	39.50	42.17	43.33	30.49	32.17	32.83
1375.000	1405.000	6.01	5.50	5.51	1405.000	39.16	46.83	49.67	29.33	30.84	32.00
1500.000	1530.000	6.25	5.76	5.42	1530.000	35.00	38.84	41.66	30.00	30.66	31.17
1625.000	1655.000	6.47	5.97	5.81	1655.000	34.33	35.67	38.49	29.67	31.00	32.00
1679.000	1709.000	6.51	6.01	5.85	1709.000	34.67	36.16	38.66	29.66	30.83	31.99
1739.000	1769.000	6.53	6.03	5.87	1769.000	35.50	37.00	39.33	29.34	30.83	31.99
1750.000	1780.000	6.62	6.12	5.96	1780.000	35.33	36.99	39.16	29.33	30.67	32.00
1759.000	1789.000	6.66	6.16	5.99	1789.000	35.50	37.33	39.50	29.33	30.67	32.01
1819.000	1849.000	6.82	6.32	5.98	1849.000	34.84	37.17	39.33	28.83	30.50	31.99
1850.000	1880.000	6.85	6.18	6.02	1880.000	33.50	36.33	38.49	28.50	30.17	31.83
1860.000	1890.000	6.82	6.32	5.98	1890.000	33.17	36.00	38.33	28.49	30.16	31.99
1870.000	1900.000	6.83	6.33	6.00	1900.000	32.33	35.50	38.01	28.33	30.00	31.66
1875.000	1905.000	6.82	6.33	6.16	1905.000	32.33	35.33	38.00	28.32	29.83	31.66
1880.000	1910.000	6.98	6.31	5.98	1910.000	32.16	35.16	37.84	28.33	30.00	31.49
1890.000	1920.000	7.00	6.34	6.00	1920.000	31.67	35.00	37.50	28.16	29.50	31.17
1900.000	1930.000	7.02	6.35	6.19	1930.000	31.17	34.50	37.17	27.99	29.50	30.83
1910.000	1940.000	7.02	6.35	6.01	1940.000	30.83	34.33	37.17	27.99	29.33	30.84
1920.000	1950.000	7.09	6.26	6.09	1950.000	30.66	34.16	36.99	28.00	29.50	30.66
1930.000	1960.000	7.18	6.51	6.18	1960.000	30.67	33.83	36.82	28.00	29.34	30.83

Case Style - TTT167 (inch,mm) weight: 0.8 grams.

A	B	C	D	E	F	G	H	J
.375	.500	.23	.020	.075	.250	.425	.187	.050
9.525	12.700	5.842	0.508	1.905	6.350	10.795	4.750	1.270
K	L	M	N	P	Q	R	S	T
.050	.070	.270	.540	.060	.095	.445	.208	.415
1.270	1.778	6.858	13.716	1.524	2.413	11.303	5.283	10.541

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

### Material and Finish:

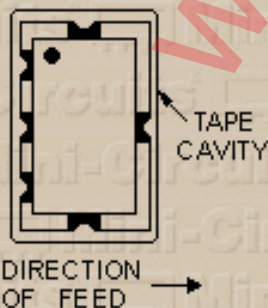
Case material: plastic or copper-nickel alloy, Glass Epoxy Laminate or ceramic base. Termination finish: tin-lead plate or tin plate.

### Packaging:

#### Packaging information:

- Tape Width(mm): 24
- Reel Size(inches): 13
- Device Cavity Pitch(mm): 12
- Devices Per Reel: 500

### UNIT ORIENTATION



1960.000	1990.000	7.21	6.54	6.21	1990.000	30.33	33.50	36.66	27.99	29.33	30.50
1990.000	2020.000	7.30	6.46	6.13	2020.000	30.00	33.34	36.33	27.66	28.83	29.83
2000.000	2030.000	7.34	6.51	6.17	2030.000	30.00	33.33	36.17	27.67	28.83	30.00
2125.000	2155.000	7.69	6.85	6.36	2155.000	29.67	32.50	34.84	28.17	29.17	30.17
2250.000	2280.000	7.86	7.02	6.52	2280.000	27.84	30.84	33.16	28.33	29.33	30.16
2375.000	2405.000	7.79	7.30	6.96	2405.000	25.67	27.33	29.67	28.00	29.16	29.99
2500.000	2530.000	8.26	7.60	7.26	2530.000	24.34	25.32	27.16	27.67	28.50	28.83
2625.000	2655.000	8.98	8.32	7.82	2655.000	25.49	26.00	27.34	27.50	27.50	27.66

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
530.000	2.24	1.98	1.85	1.17	1.49	2.13	1.000	1.52	1.31	1.21
655.000	2.51	2.32	2.21	1.33	1.33	1.92	3.000	1.61	1.35	1.22
780.000	2.73	2.51	2.41	1.59	1.37	2.10	5.000	1.65	1.37	1.23
905.000	3.17	2.86	2.73	1.65	1.20	1.55	10.000	1.69	1.40	1.25
1030.000	2.93	2.67	2.51	2.01	1.14	1.76	20.000	1.67	1.39	1.24
1155.000	2.67	2.46	2.37	1.81	1.07	1.52	30.000	1.69	1.40	1.25
1280.000	2.56	2.20	2.04	1.62	1.06	1.59	50.000	1.67	1.39	1.24
1405.000	2.20	1.85	1.67	1.56	1.18	1.73	75.950	1.65	1.38	1.23
1530.000	2.10	1.81	1.61	1.52	1.21	1.79	100.000	1.62	1.36	1.22
1655.000	1.78	1.61	1.50	1.42	1.32	1.76	120.000	1.61	1.34	1.20
1709.000	1.69	1.51	1.41	1.42	1.32	1.78	141.000	1.59	1.33	1.19
1769.000	1.61	1.48	1.40	1.39	1.46	2.13	150.900	1.56	1.31	1.18
1780.000	1.62	1.50	1.42	1.36	1.43	2.04	200.000	1.51	1.26	1.13
1789.000	1.62	1.50	1.42	1.34	1.39	1.95	225.850	1.47	1.24	1.11
1849.000	1.69	1.54	1.46	1.29	1.55	2.28	300.800	1.39	1.17	1.07
1880.000	1.71	1.55	1.46	1.25	1.48	2.01	375.750	1.32	1.13	1.11
1890.000	1.69	1.54	1.44	1.23	1.43	1.95	450.700	1.27	1.13	1.17
1900.000	1.69	1.54	1.45	1.22	1.46	1.95	500.000	1.23	1.13	1.20
1905.000	1.69	1.55	1.45	1.22	1.48	1.98	525.650	1.20	1.13	1.20
1910.000	1.69	1.54	1.44	1.23	1.51	2.01	600.600	1.12	1.12	1.23
1920.000	1.69	1.52	1.44	1.24	1.61	2.20	675.550	1.03	1.17	1.29
1930.000	1.69	1.54	1.44	1.26	1.71	2.46	750.000	1.08	1.26	1.39
1940.000	1.69	1.52	1.43	1.26	1.69	2.56	825.450	1.21	1.40	1.56
1950.000	1.69	1.52	1.43	1.26	1.69	2.46	900.400	1.33	1.55	1.73
1960.000	1.69	1.52	1.44	1.25	1.62	2.21	975.350	1.41	1.64	1.81
1990.000	1.69	1.52	1.43	1.24	1.59	2.07	1000.000	1.42	1.64	1.81
2020.000	1.69	1.51	1.40	1.28	1.78	2.73	1050.300	1.46	1.67	1.83
2030.000	1.71	1.51	1.39	1.28	1.78	2.73	1125.250	1.51	1.69	1.83
2155.000	1.74	1.55	1.44	1.32	1.81	2.41	1200.200	1.56	1.74	1.88
2280.000	1.76	1.59	1.51	1.51	2.24	3.01	1275.150	1.67	1.83	1.95
2405.000	1.95	1.78	1.71	1.61	2.17	2.86	1350.100	1.78	1.92	2.07
2530.000	2.56	2.24	2.07	1.73	2.51	3.09	1425.050	1.98	2.10	2.24
2655.000	3.17	2.86	2.61	1.92	2.56	3.37	1500.000	2.10	2.20	2.32

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