

# Frequency Mixers

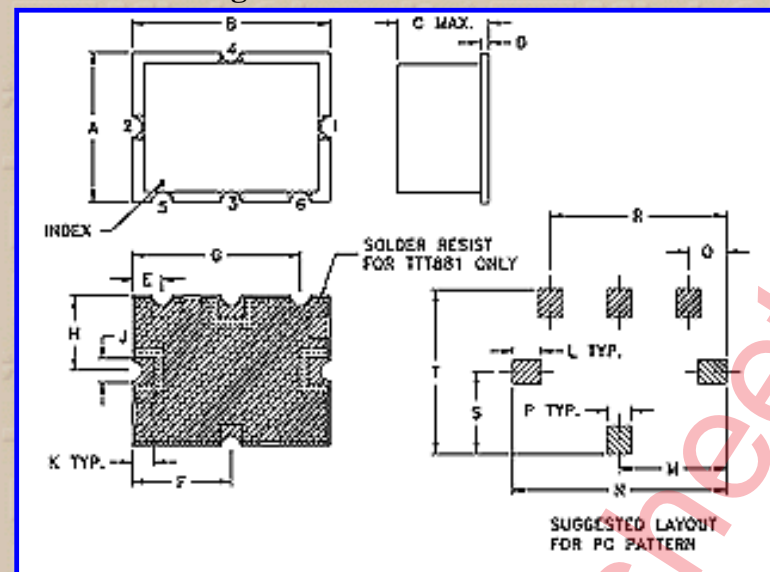
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## LO Power Level 13 dBm

### Pin Configuration

Port	LO	RF	IF	Gnd Ext.	Case Gnd	Not Used
3e	3	1	2	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-ED4628B/1



### Electrical Specifications

#### SYM-ED4628B/1

LO Power Level 13 dBm

Frequency MHz	Conversion Loss dB	LO-RF Isolation dB			LO-IF Isolation dB		
		L	M	U	L	M	U
40-2185	5-1470						

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

RF MHz	LO MHz	Conversion Loss (dB)			ISO (MHz)	Isolation L-R (dB)			Isolation L-I (dB)		
		LO +10 dBm	LO +13 dBm	LO +16 dBm		LO +10 dBm	LO +13 dBm	LO +16 dBm	LO +10 dBm	LO +13 dBm	LO +16 dBm
40.000	70.000	7.04	6.54	6.14	70.000	31.70	35.10	39.20	38.10	42.30	47.30
100.000	130.000	6.95	6.35	6.05	130.000	33.20	36.70	41.40	38.30	43.20	48.60
150.950	180.950	7.19	6.49	6.09	180.950	33.60	37.20	41.50	38.80	43.80	47.80
300.900	330.900	7.56	6.86	6.26	330.900	34.60	38.60	42.40	40.50	42.50	43.90
450.850	480.850	7.58	6.78	6.28	480.850	36.40	43.10	43.60	39.50	40.10	40.50
600.800	630.800	7.27	6.67	6.27	630.800	37.80	49.70	43.80	38.40	38.90	38.40
750.750	780.750	7.29	6.69	6.39	780.750	35.30	40.70	40.30	38.70	38.30	36.60
900.700	930.700	7.14	6.64	6.34	930.700	33.70	36.90	36.00	40.00	38.30	35.10
1000.000	1030.000	7.02	6.62	6.32	1030.000	32.10	34.20	33.70	41.40	38.60	34.90
1050.650	1080.650	6.85	6.45	6.25	1080.650	31.20	33.50	33.20	42.30	39.30	35.30
1200.600	1230.600	6.81	6.51	6.21	1230.600	28.70	31.30	32.20	48.60	41.10	36.10
1350.550	1380.550	6.88	6.58	6.38	1380.550	27.90	30.50	31.70	48.60	40.30	35.80
1500.500	1530.500	7.04	6.64	6.34	1530.500	27.80	30.60	32.10	42.90	39.70	36.10
1650.450	1680.450	7.03	6.63	6.43	1680.450	25.70	28.10	30.80	40.00	39.10	36.30
1800.400	1830.400	7.32	6.82	6.52	1830.400	25.20	27.90	31.10	38.80	39.70	38.40
1950.350	1980.350	7.77	7.27	6.97	1980.350	24.90	27.00	29.60	36.70	38.20	39.90
2000.000	2030.000	8.07	7.47	7.07	2030.000	24.60	26.40	28.90	35.90	37.50	39.60
2100.300	2130.300	8.63	7.93	7.43	2130.300	24.30	25.60	27.30	34.30	35.70	38.10
2170.000	2200.000	8.65	7.95	7.35	2200.000	24.30	25.40	26.90	33.10	33.90	35.40
2185.000	2215.000	8.66	7.96	7.46	2215.000	24.30	25.20	26.80	32.90	33.80	35.10

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

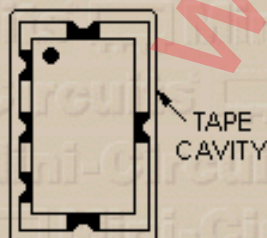
Tolerance: .x ± .1 .xx ± .03 .xxx ± .015 inch.

### 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:

#### UNIT ORIENTATION



#### Packaging information:

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

DIRECTION OF FEED →

RF/LO	VSWR RF port			VSWR LO port			IF	VSWR IF port		
FREQ. (MHz)	LO +10 dBm	LO +13 dBm	LO +16 dBm	LO +10 dBm	LO +13 dBm	LO +16 dBm	FREQ. (MHz)	LO +10 dBm	LO +13 dBm	LO +16 dBm
70.000	1.28	1.23	1.25	1.10	1.60	2.65	5.000	1.44	1.13	1.13
130.000	1.20	1.11	1.12	1.07	1.59	2.68	10.000	1.44	1.14	1.12
180.950	1.27	1.14	1.08	1.06	1.59	2.58	50.000	1.47	1.18	1.12
330.900	1.44	1.32	1.23	1.07	1.51	2.61	100.000	1.51	1.18	1.16
480.850	1.69	1.56	1.47	1.10	1.49	2.49	105.358	1.46	1.19	1.17
630.800	1.97	1.84	1.74	1.08	1.46	2.27	210.616	1.43	1.23	1.27
780.750	2.12	1.97	1.88	1.14	1.46	2.35	315.874	1.36	1.24	1.33
930.700	2.16	2.06	1.96	1.19	1.43	2.30	421.132	1.27	1.24	1.40
1030.000	2.18	2.04	1.96	1.20	1.39	2.35	435.000	1.26	1.25	1.43
1080.650	2.10	1.97	1.88	1.18	1.36	2.20	526.389	1.19	1.31	1.55
1230.600	1.89	1.76	1.66	1.19	1.37	2.20	631.647	1.23	1.44	1.68
1380.550	1.75	1.60	1.50	1.14	1.37	2.12	736.905	1.30	1.53	1.77
1530.500	1.53	1.39	1.28	1.17	1.39	2.03	842.163	1.35	1.60	1.88
1680.450	1.43	1.30	1.16	1.22	1.40	2.03	947.421	1.39	1.63	1.88
1830.400	1.30	1.18	1.10	1.26	1.35	1.88	1000.000	1.40	1.62	1.85
1980.350	1.25	1.19	1.16	1.27	1.28	1.75	1052.679	1.41	1.63	1.85
2030.000	1.27	1.21	1.17	1.32	1.25	1.76	1157.937	1.46	1.63	1.82
2130.300	1.28	1.20	1.12	1.32	1.18	1.68	1263.195	1.52	1.70	1.89
2200.000	1.23	1.15	1.07	1.29	1.15	1.65	1368.453	1.65	1.81	2.03
2215.000	1.23	1.15	1.07	1.31	1.11	1.65	1473.710	1.80	1.94	2.12

Click Above for Actual Performance Data.



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