


Frequency Mixers

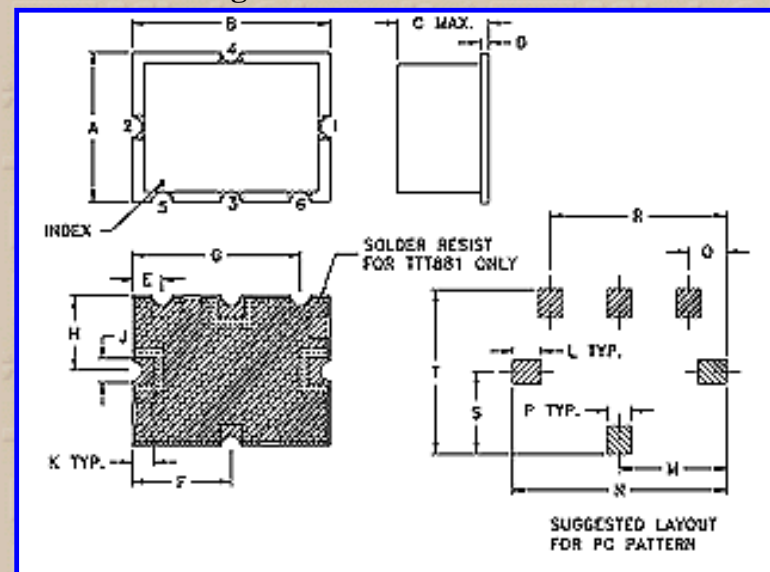
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LO Power Level 10 dBm

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-ED6395/1



Electrical Specifications

SYM-ED6395/1

LO Power Level 10 dBm

Frequency MHz	Conversion Loss dB	LO-RF Isolation dB			LO-IF Isolation dB		
		L	M	U	L	M	U
70-2090	0-2000						

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-ED6395/1		Conversion Loss (dB)			ISO	Isolation L-R (dB)			Isolation L-I (dB)		
RF MHz	LO MHz	LO +7 dBm	LO +10 dBm	LO +13 dBm	LO (MHz)	LO +7 dBm	LO +10 dBm	LO +13 dBm	LO +7 dBm	LO +10 dBm	LO +13 dBm
70.000	100.000	6.73	6.13	5.93	100.000	20.40	23.20	25.80	44.00	48.20	51.20
140.000	170.000	6.29	5.79	5.49	170.000	23.90	26.50	29.00	45.40	49.30	49.60
270.000	300.000	6.46	5.96	5.56	300.000	27.80	29.80	31.70	51.10	49.70	45.60
400.000	430.000	6.62	5.92	5.52	430.000	30.80	31.70	32.70	58.20	47.70	42.50
530.000	560.000	6.66	5.86	5.56	560.000	35.20	34.50	34.40	46.50	53.10	43.30
660.000	690.000	6.57	5.97	5.67	690.000	41.90	40.10	39.10	44.30	59.60	47.30
750.000	780.000	6.65	6.05	5.75	780.000	42.70	42.70	42.20	44.00	53.50	48.90
790.000	820.000	6.67	6.17	5.87	820.000	42.40	43.10	43.00	42.70	50.00	50.40
920.000	950.000	6.72	6.12	5.82	950.000	42.20	42.80	43.10	38.30	41.60	44.50
1000.000	1030.000	6.40	5.80	5.60	1030.000	42.10	42.90	42.90	37.10	40.20	42.50
1050.000	1080.000	6.21	5.71	5.51	1080.000	42.90	43.40	43.30	36.00	39.00	41.10
1170.000	1200.000	6.23	5.73	5.53	1200.000	43.10	43.10	42.70	32.70	35.40	37.10
1180.000	1210.000	6.31	5.81	5.61	1210.000	43.10	43.00	42.70	32.50	34.90	36.90
1310.000	1340.000	6.80	6.10	5.90	1340.000	45.00	44.60	44.20	31.30	32.90	34.50
1440.000	1470.000	7.09	6.39	5.99	1470.000	47.50	47.20	45.60	30.90	32.30	33.80
1570.000	1600.000	7.86	6.96	6.56	1600.000	44.20	44.10	43.00	31.30	32.00	33.40
1700.000	1730.000	8.04	7.14	6.64	1730.000	42.20	42.60	42.90	31.40	32.20	33.60
1830.000	1860.000	7.90	7.10	6.70	1860.000	40.20	41.10	41.60	30.50	31.70	33.30
1960.000	1990.000	7.87	7.07	6.67	1990.000	40.00	41.20	41.50	29.80	30.90	32.40
2090.000	2120.000	7.65	6.95	6.65	2120.000	39.40	41.70	42.50	28.80	30.00	31.40

Case Style - TTT166 (inch,mm) weight: 0.8 grams.

A	B	C	D	E	F	G	H	J
.375	.500	.15	.020	.075	.250	.425	.187	.050
9.525	12.700	3.810	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:

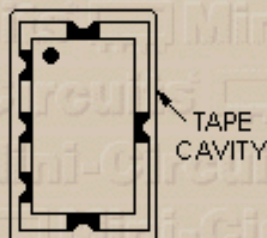
Case material: plastic or copper-nickel alloy, Glass Epoxy Laminate or ceramic base. Termination finish: tin-lead plate or tin plate.

Packaging:

Packaging information:

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

UNIT ORIENTATION



DIRECTION OF FEED →

RF/LO	VSWR RF port			VSWR LO port			IF	VSWR IF port		
FREQ. (MHz)	LO +7 dBm	LO +10 dBm	LO +13 dBm	LO +7 dBm	LO +10 dBm	LO +13 dBm	FREQ. (MHz)	LO +7 dBm	LO +10 dBm	LO +13 dBm
100.000	2.46	2.23	2.16	1.51	1.68	2.27	0.100	1.74	1.62	1.57
170.000	1.84	1.68	1.60	1.21	1.53	2.25	0.300	1.82	1.63	1.49
300.000	1.68	1.51	1.38	1.04	1.46	2.08	0.500	1.88	1.65	1.51
430.000	1.88	1.66	1.51	1.15	1.41	2.01	0.800	1.91	1.68	1.52
560.000	2.20	1.89	1.76	1.31	1.32	1.81	1.000	1.96	1.73	1.54
690.000	2.27	2.03	1.92	1.53	1.30	1.71	5.000	1.94	1.70	1.54
780.000	2.35	2.18	2.06	1.69	1.30	1.65	10.000	1.94	1.71	1.53
820.000	2.35	2.18	2.08	1.76	1.30	1.54	30.000	1.89	1.66	1.49
950.000	2.68	2.43	2.30	2.10	1.32	1.44	50.000	1.89	1.67	1.50
1030.000	2.58	2.32	2.20	2.20	1.31	1.34	120.095	1.82	1.60	1.44
1080.000	2.49	2.20	2.06	2.18	1.29	1.25	240.090	1.68	1.46	1.30
1200.000	2.43	2.04	1.89	2.30	1.28	1.15	360.085	1.59	1.37	1.20
1210.000	2.37	2.03	1.85	2.30	1.32	1.16	480.080	1.54	1.32	1.15
1340.000	2.49	2.12	1.94	2.10	1.28	1.18	600.075	1.39	1.19	1.04
1470.000	2.49	2.14	1.97	2.04	1.32	1.28	720.070	1.21	1.10	1.14
1600.000	2.68	2.37	2.20	2.12	1.47	1.46	840.065	1.16	1.22	1.35
1730.000	2.88	2.55	2.40	2.14	1.61	1.64	880.000	1.18	1.27	1.41
1860.000	3.06	2.76	2.55	2.14	1.76	1.92	960.060	1.24	1.36	1.54
1990.000	2.96	2.65	2.49	2.01	1.89	2.23	1080.055	1.32	1.43	1.59
2120.000	2.55	2.27	2.16	1.97	2.06	2.52	1200.050	1.40	1.49	1.62

Click Above for Actual Performance Data.



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