

Frequency Mixers

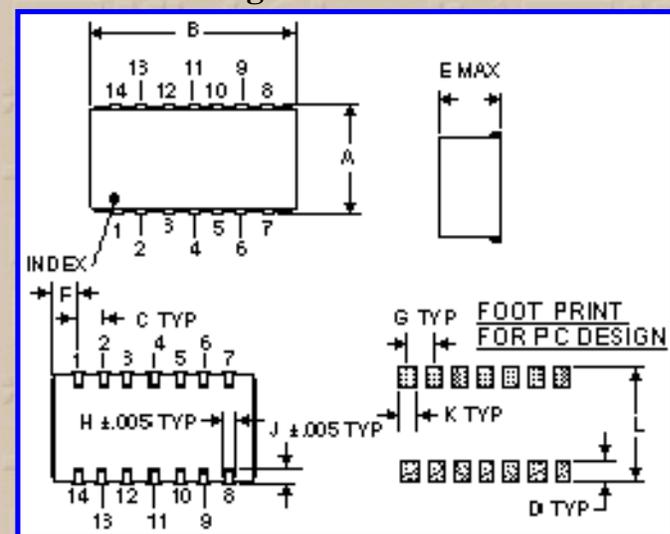
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LO Power Level 1 dBm

Pin Configuration

Port	LO	RF	IF	Gnd	Ext.	Case Gnd	Not Used
3b	1	8	5	-	-	all others	-

Outline Drawing



Case Style - BK276 (inch,mm) weight: 3 grams.

A	B	C	D	E	F	G	H	J
.470	.803		.100	.250	.102	.100	.047	.065
11.938	20.396		2.540	6.350	2.591	2.540	1.194	1.651
K	L	M	N	P	Q	R	S	T
.065	.490							
1.651	12.446							

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

Material and Finish:

Base: Glass epoxy laminate. Cover: Copper-Nickel alloy.

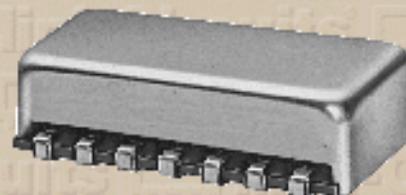
Leads: tin-lead plate or tin plate iron-nickel alloy.

Packaging:

Notes:

- Non-catalog model. Please consult factory for price and delivery.
- For Surface Mount Environmental Specifications, please click [here](#).
- **DATA SHOWS TYPICAL PERFORMANCE. PLEASE CONSULT FACTORY FOR GUARANTEED SPECS FOR YOUR REQUIREMENT.**

JTFM-ED9835/1



- 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.

Electrical Specifications

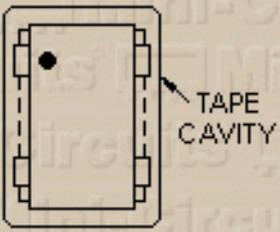
JTFM-ED9835/1 LO Power Level 1 dBm

Frequency MHz		Conversion Loss dB		LO-RF Isolation dB			LO-IF Isolation dB		
LO/RF	IF	Mid-Band	Total Range	L	M	U	L	M	U
1705-2930	84-259		9.0		20			23	

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

JTFM-ED9835/1		Conversion Loss (dB)			ISO	Isolation L-R (dB)			Isolation L-I (dB)		
RF MHz	LO MHz	LO -2 dBm	LO +1 dBm	LO +4 dBm	LO (MHz)	LO -2 dBm	LO +1 dBm	LO +4 dBm	LO -2 dBm	LO +1 dBm	LO +4 dBm
1705.000	1735.000	9.36	8.87	8.54	1735.000	26.13	27.88	31.25	20.01	20.53	21.80
1740.000	1770.000	9.07	8.60	8.29	1770.000	25.03	26.99	29.97	20.38	20.96	22.38
1775.000	1805.000	8.63	8.23	7.99	1805.000	24.75	26.83	29.56	20.62	21.75	23.10
1810.000	1840.000	8.52	8.16	7.94	1840.000	24.33	25.93	28.25	21.00	22.34	23.85
1845.000	1875.000	8.10	7.80	7.61	1875.000	23.71	25.16	27.49	21.02	22.85	24.96
1880.000	1910.000	7.97	7.73	7.61	1910.000	22.71	24.17	26.38	20.56	22.54	24.96
1950.000	1980.000	7.56	7.42	7.35	1980.000	19.32	20.39	22.07	20.51	23.16	26.39
1985.000	2015.000	7.35	7.28	7.25	2015.000	17.02	17.98	19.79	22.06	25.99	32.52
2020.000	2050.000	7.40	7.35	7.32	2050.000	14.78	16.09	17.43	27.11	37.40	38.09
2055.000	2085.000	7.19	7.18	7.18	2085.000	13.18	14.82	16.41	30.35	29.59	26.99
2090.000	2120.000	7.46	7.45	7.49	2120.000	12.49	14.37	16.01	24.78	25.03	24.44
2125.000	2155.000	7.27	7.25	7.24	2155.000	13.12	15.26	17.48	25.27	28.92	31.14
2160.000	2190.000	7.47	7.45	7.44	2190.000	13.50	15.43	17.43	25.55	29.46	31.86
2195.000	2225.000	7.44	7.42	7.43	2225.000	14.50	16.13	18.34	23.76	27.94	31.31
2230.000	2260.000	7.61	7.57	7.55	2260.000	15.57	17.24	19.54	22.45	26.16	29.51
2265.000	2295.000	7.52	7.50	7.48	2295.000	16.02	17.66	20.06	20.79	23.99	27.22
2300.000	2330.000	7.79	7.74	7.70	2330.000	16.90	18.67	20.58	19.81	23.20	26.30
2335.000	2365.000	7.69	7.62	7.57	2365.000	18.89	20.78	22.32	19.53	22.84	25.34
2370.000	2400.000	7.95	7.85	7.79	2400.000	20.42	22.43	24.44	18.98	22.08	24.74
2405.000	2435.000	7.93	7.79	7.71	2435.000	22.35	24.49	26.67	18.37	21.51	24.44

UNIT ORIENTATION**Packaging information:**

Tape Width(mm): 32

Reel Size(inches): 13

Device Cavity Pitch(mm): 16

Devices Per Reel: 500

2440.000	2470.000	8.21	8.04	7.93	2470.000	24.35	26.38	28.54	17.88	20.73	23.60
2475.000	2505.000	8.20	8.00	7.88	2505.000	26.37	28.44	30.83	17.28	20.00	22.98
2510.000	2540.000	8.50	8.26	8.10	2540.000	27.74	29.88	32.43	17.00	19.92	22.86
2545.000	2575.000	8.55	8.28	8.07	2575.000	29.13	31.63	34.85	17.09	20.27	23.66
2580.000	2610.000	8.69	8.43	8.24	2610.000	30.84	33.92	37.33	17.57	21.00	24.38
2615.000	2645.000	8.80	8.48	8.25	2645.000	32.70	36.29	39.63	18.44	22.02	25.80
2650.000	2680.000	8.91	8.60	8.37	2680.000	31.16	33.97	36.46	19.38	23.31	27.58
2685.000	2715.000	8.97	8.60	8.37	2715.000	27.16	29.86	32.38	20.44	24.83	29.57
2720.000	2750.000	9.10	8.75	8.52	2750.000	23.85	26.92	29.62	22.06	27.20	32.45
2755.000	2785.000	9.27	8.87	8.62	2785.000	21.51	24.40	27.44	24.26	30.05	36.12
2790.000	2820.000	9.17	8.83	8.62	2820.000	19.33	22.58	25.74	27.03	34.37	42.55
2825.000	2855.000	9.63	9.25	9.00	2855.000	18.13	21.53	24.76	31.69	41.55	56.51
2860.000	2890.000	9.40	9.09	8.89	2890.000	16.61	20.35	23.71	36.70	40.22	41.30
2895.000	2925.000	9.88	9.54	9.32	2925.000	15.85	19.39	22.78	33.19	33.61	35.69
2930.000	2960.000	9.76	9.45	9.26	2960.000	14.79	18.22	21.63	27.63	28.75	31.37

RF/LO FREQ. (MHz)	VSWR RF port			VSWR LO port			IF FREQ. (MHz)	VSWR IF port		
	LO -2 dBm	LO +1 dBm	LO +4 dBm	LO -2 dBm	LO +1 dBm	LO +4 dBm		LO -2 dBm	LO +1 dBm	LO +4 dBm
1705.000	2.69	2.50	2.35	1.49	1.44	1.40	83.600	1.32	1.45	1.55
1740.000	2.55	2.38	2.30	1.47	1.43	1.38	88.600	1.35	1.47	1.57
1775.000	2.65	2.49	2.39	1.49	1.44	1.39	93.600	1.38	1.50	1.59
1810.000	2.23	2.13	2.04	1.47	1.42	1.37	98.600	1.41	1.53	1.62
1845.000	2.35	2.24	2.15	1.48	1.43	1.38	103.600	1.44	1.56	1.66
1880.000	2.08	2.01	1.95	1.49	1.43	1.37	108.600	1.47	1.59	1.69
1950.000	1.96	1.91	1.87	1.47	1.40	1.32	118.600	1.55	1.66	1.77
1985.000	1.74	1.70	1.70	1.43	1.35	1.24	123.600	1.59	1.70	1.81
2020.000	1.75	1.72	1.71	1.37	1.28	1.20	128.600	1.63	1.74	1.85
2055.000	1.62	1.62	1.60	1.32	1.25	1.23	133.600	1.67	1.78	1.88
2090.000	1.62	1.62	1.62	1.32	1.31	1.33	138.600	1.69	1.81	1.92
2125.000	1.62	1.62	1.61	1.40	1.43	1.46	143.600	1.73	1.83	1.94
2160.000	1.55	1.56	1.55	1.48	1.54	1.54	148.600	1.75	1.84	1.95
2195.000	1.62	1.61	1.61	1.53	1.57	1.58	153.600	1.76	1.86	1.96
2230.000	1.58	1.58	1.58	1.58	1.63	1.61	158.600	1.76	1.87	1.96
2265.000	1.60	1.60	1.59	1.57	1.58	1.57	163.600	1.76	1.86	1.95
2300.000	1.68	1.66	1.66	1.57	1.56	1.54	168.600	1.74	1.84	1.92
2335.000	1.64	1.62	1.61	1.54	1.50	1.51	173.600	1.73	1.82	1.88
2370.000	1.74	1.72	1.70	1.53	1.48	1.46	178.600	1.71	1.80	1.86
2405.000	1.74	1.69	1.69	1.52	1.46	1.43	183.600	1.69	1.78	1.84
2440.000	1.77	1.74	1.73	1.49	1.42	1.40	188.600	1.69	1.77	1.83
2475.000	1.85	1.81	1.78	1.49	1.42	1.39	193.600	1.68	1.77	1.82
2510.000	1.84	1.80	1.78	1.47	1.39	1.37	198.600	1.67	1.76	1.81
2545.000	1.93	1.89	1.87	1.46	1.39	1.36	203.600	1.66	1.75	1.81
2580.000	1.97	1.92	1.89	1.46	1.38	1.37	208.600	1.66	1.75	1.81
2615.000	2.01	1.96	1.95	1.44	1.37	1.35	213.600	1.65	1.74	1.80
2650.000	2.12	2.07	2.06	1.46	1.39	1.38	218.600	1.63	1.73	1.79
2685.000	2.11	2.05	2.04	1.44	1.37	1.35	223.600	1.62	1.73	1.78
2720.000	2.25	2.19	2.17	1.46	1.38	1.37	228.600	1.60	1.71	1.77
2755.000	2.29	2.25	2.18	1.46	1.39	1.38	233.600	1.58	1.69	1.75
2790.000	2.26	2.23	2.21	1.44	1.39	1.37	238.600	1.56	1.67	1.72
2825.000	2.34	2.34	2.27	1.47	1.40	1.40	243.600	1.53	1.64	1.69

2860.000	2.30	2.25	2.24	1.44	1.41	1.41	248.600	1.51	1.60	1.66
2895.000	2.55	2.45	2.44	1.45	1.42	1.43	253.600	1.48	1.58	1.63
2930.000	2.49	2.47	2.45	1.47	1.44	1.48	258.600	1.46	1.54	1.60

RF	LO	IP3
1705	1953.6	29.54
1720	1963.6	29.61
1735	1973.6	29.56
1750	1983.6	29.49
1765	1993.6	29.52
1780	2003.6	29.82
1810	2023.6	30.67
1825	2033.6	31.42
1840	2043.6	32.37
1855	2053.6	33.87
1870	2063.6	35.75
1885	2073.6	37.85
1900	2083.6	39.17
1915	2093.6	38.15
1930	2103.6	37.19
1945	2113.6	39.47
1960	2123.6	37.6
1975	2133.6	35.41
1990	2143.6	36.14
2005	2153.6	37.48
2020	2163.6	38.49
2035	2173.6	38.33
2050	2183.6	37.6
2065	2193.6	36.74
2080	2203.6	35.86
2095	2213.6	35.4
2110	2223.6	35.15
2125	2233.6	34.7
2140	2243.6	34.41
2155	2253.6	33.92
2170	2263.6	33.9
2185	2273.6	34.17
2200	2283.6	33.89
2215	2293.6	33.66
2230	2303.6	33.37

Click Above for Actual Performance Data.



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