

Coaxial

Voltage Controlled Oscillator

ZX95-1845+

Linear Tuning 1730 to 1830 MHz

Features

- linear tuning characteristics
- low phase noise
- low pushing
- protected by US patent 6,790,049

Applications

- r & d
- lab
- instrumentation
- wireless communications
- point-to-point



CASE STYLE: GB956

Connectors	Model	Price	Qty.
SMA	ZX95-1845-S+	\$ 40.95 ea.	(1-9)

+RoHS Compliant

The +Suffix identifies RoHS Compliance. See our web site for RoHS Compliance methodologies and qualifications

Electrical Specifications

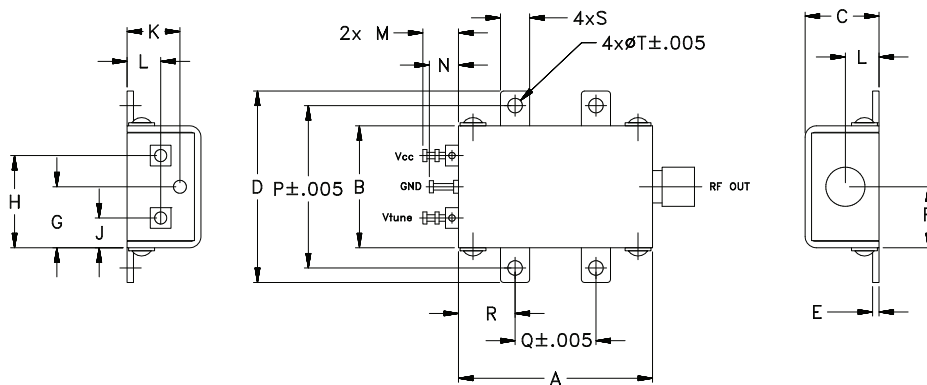
MODEL NO.	FREQ. (MHz)		POWER OUTPUT (dBm)	PHASE NOISE dBc/Hz SSB at offset frequencies,kHz Typ.				TUNING					NON HARMONIC SPURIOUS (dBc)	HARMONICS (dBc)		PULLING pk-pk @12 dB _r (MHz)	PUSHING (MHz/V)	DC OPERATING POWER	
								VOLTAGE RANGE (V)	SENSI- TIVITY (MHz/V)	PORT CAP (pF)	3 dB MODULATION BANDWIDTH (MHz)	V _{cc} (volts)						Current (mA)	
	Min.	Max.	Typ.	1	10	100	1000	Min.	Max.	Typ.	Typ.	Typ.	Typ.	Typ.	Max.	Typ.	Typ.	Max.	
ZX95-1845+	1730	1830	+1	-81	-104	-125	-145	0.5	12	15	15	35	-90	-24	-14	1.4	0.3	8	35

Maximum Ratings

Operating Temperature	-55°C to 85°C
Storage Temperature	-55°C to 100°C
Absolute Max. Supply Voltage (Vcc)	10V
Absolute Max. Tuning Voltage (Vtune)	14V
All specifications	50 ohm system

Permanent damage may occur if any of these limits are exceeded.

Outline Drawing



Outline Dimensions (inch mm)

A	B	C	D	E	F	G	H	J	K	L	M	N	P	Q	R	S	T	wt.
1.20	.75	.46	1.18	.04	.38	.38	.57	.18	.33	.21	.22	.18	1.00	.50	.35	.18	.106	grams
30.48	19.05	11.68	29.97	1.02	9.65	9.65	14.48	4.57	8.38	5.33	5.59	4.57	25.40	12.70	8.89	4.57	2.69	35.0



For detailed performance specs & shopping online see web site

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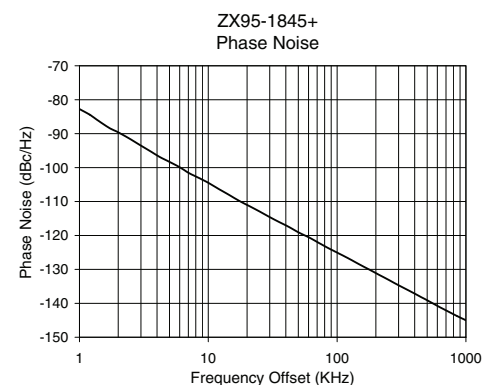
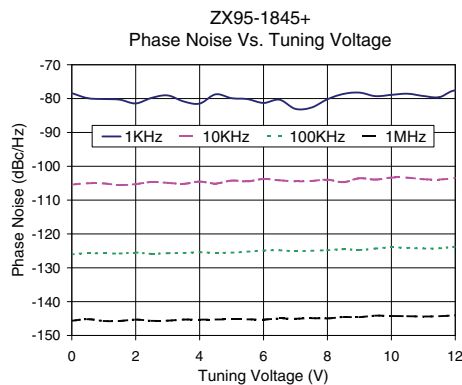
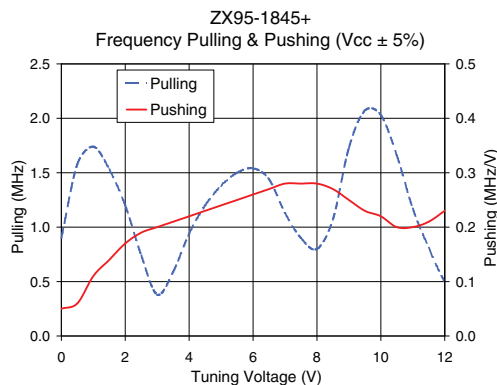
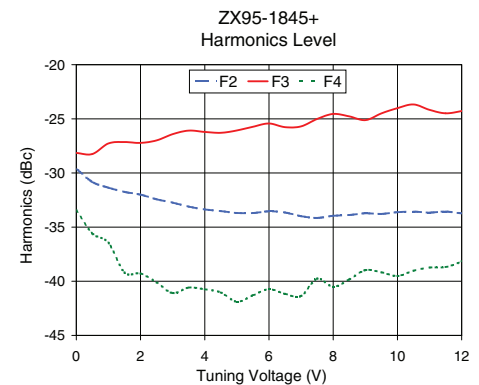
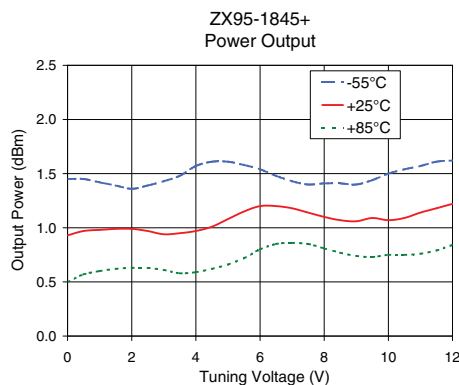
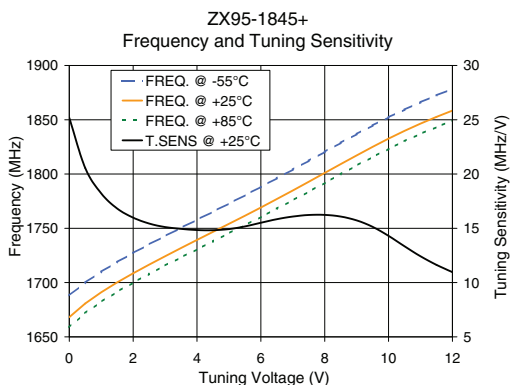
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Performance Data & Curves*

ZX95-1845+

V TUNE	TUNE SENS (MHz/V)	FREQUENCY (MHz)			POWER OUTPUT (dBm)			Icc (mA)	HARMONICS (dBc)			FREQ. PUSH (MHz/V)	FREQ. PULL (MHz)	PHASE NOISE (dBc/Hz) at offsets				FREQ OFFSET (KHz)	PHASE NOISE at 1788 MHz (dBc/Hz)
		-55°C	+25°C	+85°C	-55°C	+25°C	+85°C		F2	F3	F4			1kHz	10kHz	100kHz	1MHz		
0.00	25.18	1688.1	1668.2	1658.8	1.45	0.93	0.50	24.80	-29.6	-28.2	-33.5	0.05	0.90	-78.4	-105.4	-126.0	-145.6	1.0	-82.74
0.50	20.55	1700.0	1680.8	1671.9	1.45	0.97	0.57	24.82	-30.8	-28.3	-35.6	0.06	1.58	-79.9	-105.0	-125.7	-145.2	2.0	-89.62
1.00	18.22	1709.9	1691.0	1682.3	1.42	0.98	0.60	24.83	-31.4	-27.3	-36.4	0.11	1.74	-80.1	-105.1	-125.8	-145.7	3.5	-95.05
2.00	15.98	1727.2	1708.5	1699.9	1.36	0.99	0.63	24.87	-32.0	-27.2	-39.3	0.17	1.20	-81.4	-105.3	-125.5	-145.3	6.0	-99.89
3.00	15.12	1742.9	1724.3	1715.6	1.43	0.94	0.61	24.90	-32.7	-26.4	-41.1	0.20	0.38	-79.1	-104.9	-125.7	-145.6	8.5	-103.10
3.50	14.95	1750.4	1731.8	1723.2	1.48	0.95	0.58	24.92	-33.1	-26.1	-40.6	0.21	0.59	-80.8	-105.2	-125.6	-145.3	10.0	-104.47
4.00	14.84	1757.8	1739.3	1730.6	1.57	0.97	0.59	24.93	-33.4	-26.2	-40.7	0.22	0.94	-81.5	-104.6	-125.4	-145.3	20.8	-111.33
4.50	14.83	1765.3	1746.7	1738.0	1.61	1.01	0.62	24.94	-33.5	-26.3	-41.0	0.23	1.20	-78.8	-105.1	-125.6	-145.3	35.5	-116.06
5.00	14.92	1772.8	1754.1	1745.4	1.61	1.08	0.66	24.96	-33.7	-26.1	-41.9	0.24	1.38	-79.9	-104.3	-125.5	-145.2	60.7	-120.62
5.50	15.17	1780.5	1761.6	1752.9	1.58	1.15	0.72	24.97	-33.7	-25.7	-41.3	0.25	1.50	-80.2	-104.5	-125.3	-145.2	86.7	-123.85
6.00	15.51	1788.2	1769.2	1760.4	1.54	1.20	0.80	24.98	-33.5	-25.4	-40.7	0.26	1.54	-81.3	-103.8	-124.9	-145.3	100.0	-125.06
7.00	16.08	1804.1	1784.8	1775.8	1.43	1.18	0.86	24.99	-34.0	-25.7	-41.4	0.28	1.13	-83.1	-104.5	-125.1	-145.0	148.1	-128.48
7.50	16.23	1812.2	1792.9	1783.8	1.40	1.14	0.85	25.01	-34.2	-25.0	-39.8	0.28	0.90	-82.7	-104.4	-125.0	-144.9	177.0	-130.03
8.00	16.23	1820.5	1801.0	1791.8	1.41	1.10	0.81	25.02	-34.0	-24.6	-40.5	0.28	0.80	-80.2	-104.0	-124.8	-145.0	211.6	-131.61
9.00	15.73	1836.8	1817.2	1807.8	1.40	1.06	0.74	25.05	-33.7	-25.1	-39.0	0.25	1.73	-78.2	-103.6	-124.7	-144.6	302.4	-134.73
9.50	15.14	1844.7	1825.0	1815.6	1.44	1.09	0.73	25.07	-33.8	-24.5	-39.2	0.23	2.07	-79.3	-103.9	-124.3	-144.2	361.5	-136.27
10.00	14.31	1852.2	1832.6	1823.1	1.50	1.07	0.75	25.09	-33.6	-24.0	-39.5	0.22	2.03	-78.9	-103.4	-124.0	-144.2	507.5	-139.23
10.50	13.34	1859.3	1839.7	1830.3	1.54	1.09	0.75	25.11	-33.6	-23.7	-39.0	0.20	1.66	-78.6	-103.4	-124.1	-144.3	606.7	-140.84
11.00	12.43	1866.1	1846.4	1837.0	1.57	1.14	0.76	25.13	-33.7	-24.2	-38.7	0.20	1.17	-79.2	-103.8	-124.3	-144.4	851.6	-143.73
12.00	10.96	1878.5	1858.4	1849.1	1.62	1.22	0.84	25.18	-33.7	-24.3	-38.2	0.23	0.50	-77.6	-103.5	-123.8	-144.1	1000.0	-145.01

*at 25°C unless mentioned otherwise



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