

Coaxial

Voltage Controlled Oscillator

ZX95-1750W+

Wide Band 950 to 1750 MHz

Features

- low phase noise
- low pulling
- low pushing
- protected by US patent 6,790,049

Applications

- r & d
- lab
- instrumentation
- wireless communications
- satellite
- defence communications & radar



CASE STYLE: GB956

Connectors	Model	Price	Qty.
SMA	ZX95-1750W-S+	\$49.95 ea.	(1-9)

+RoHS Compliant

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

Electrical Specifications

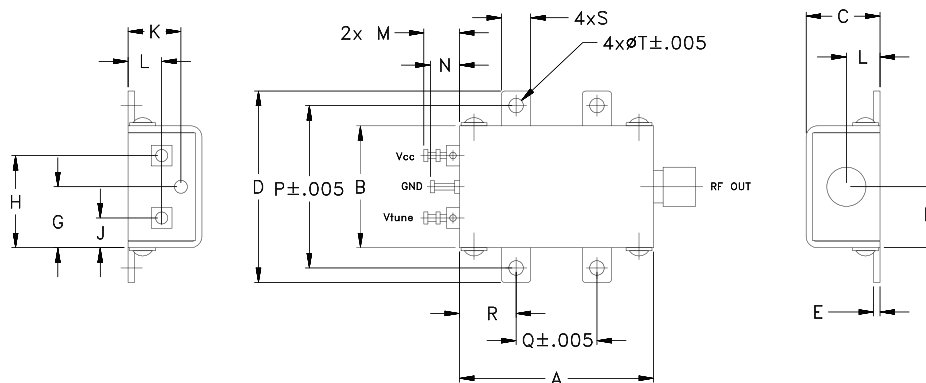
MODEL NO.	FREQ. (MHz)		POWER OUTPUT (dBm)	PHASE NOISE dBc/Hz SSB at offset frequencies,kHz Typ.				TUNING					NON HARMONIC SPURIOUS (dBc)	HARMONICS (dBc)		PULLING pk-pk @12 dB (MHz)	PUSHING (MHz/V)	DC OPERATING POWER Vcc Current (volts) (mA)	
								VOLTAGE RANGE (V)	SENSI- TIVITY (MHz/V)	PORT CAP (pF)	3 dB MODULATION BANDWIDTH (MHz)								
	Min.	Max.	Typ.	1	10	100	1000	Min.	Max.	Typ.	Typ.	Typ.	Typ.	Typ.	Max.	Typ.	Typ.	Max.	
ZX95-1750W+	950	1750	+6	-71	-99	-121	-143	0.5	12	71-103	50	50	-90	-20	-10	0.3	0.2	10	35

Maximum Ratings

Operating Temperature	-55°C to 85°C
Storage Temperature	-55°C to 100°C
Absolute Max. Supply Voltage (Vcc)	11V
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



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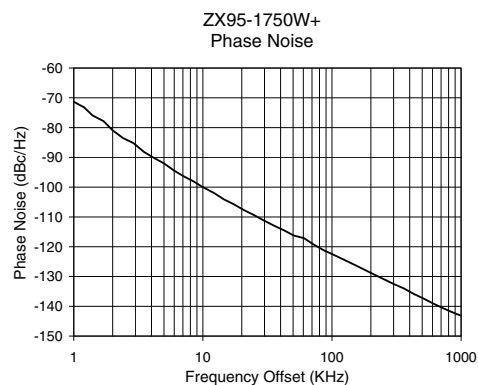
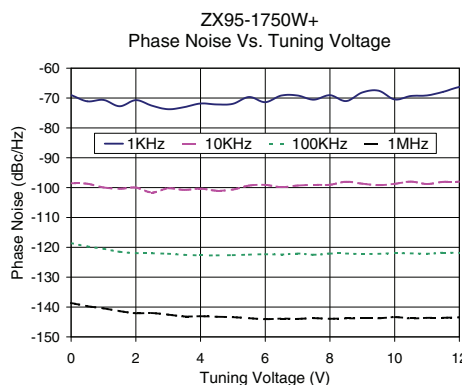
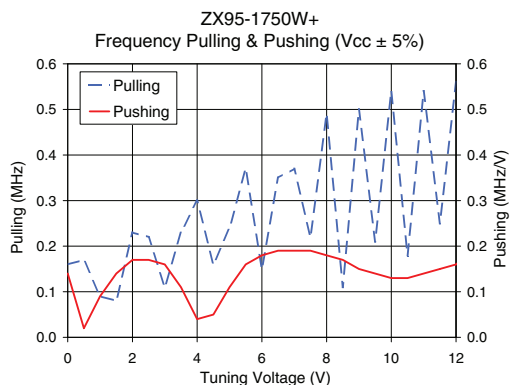
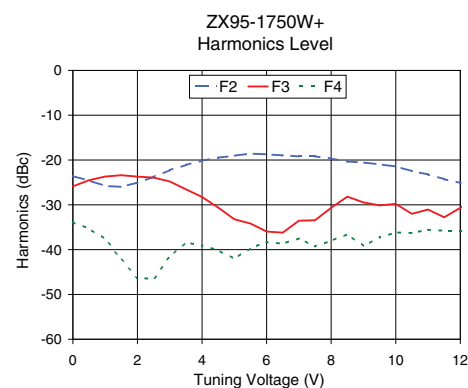
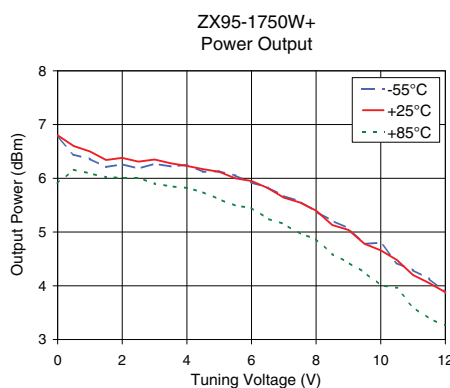
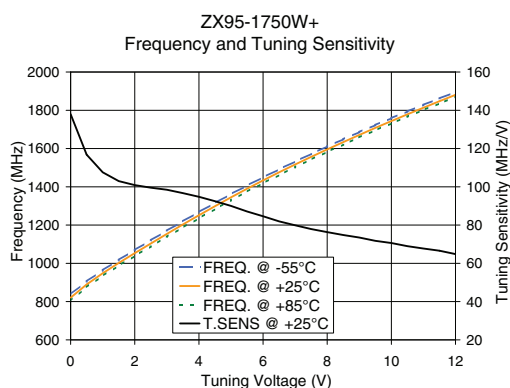
REV. OR
M118009
EDR-9056F2
ZX95-1750W+
RAV
120903
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Performance Data & Curves*

ZX95-1750W+

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 1350 MHz (dBc/Hz)
		-55°C	+25°C	+85°C	-55°C	+25°C	+85°C		F2	F3	F4			1kHz	10kHz	100kHz	1MHz		
0.00	137.95	838.5	820.8	804.7	6.76	6.80	5.91	24.21	-23.6	-25.9	-33.9	0.14	0.16	-69.0	-98.5	-118.6	-138.6	1.0	-71.34
0.50	116.79	905.6	889.8	875.6	6.44	6.60	6.16	24.29	-24.6	-24.5	-35.3	0.02	0.17	-71.1	-98.7	-119.7	-139.7	2.0	-80.93
1.00	107.59	963.8	948.2	934.3	6.36	6.50	6.09	24.35	-25.8	-23.7	-37.6	0.09	0.09	-70.6	-99.9	-120.5	-140.4	3.5	-88.17
2.00	100.87	1069.6	1053.5	1039.1	6.26	6.38	6.01	24.46	-25.0	-23.7	-46.3	0.17	0.23	-70.7	-100.0	-121.9	-142.1	6.0	-94.47
3.00	98.45	1170.5	1153.6	1138.5	6.27	6.35	5.90	24.54	-22.3	-24.8	-41.6	0.16	0.11	-73.7	-100.2	-122.2	-142.5	8.5	-98.10
3.50	96.70	1219.7	1202.9	1187.6	6.22	6.28	5.85	24.57	-21.1	-26.5	-38.4	0.11	0.23	-73.0	-100.7	-122.5	-143.2	10.0	-100.00
4.00	94.77	1268.2	1251.2	1235.9	6.25	6.23	5.82	24.58	-20.2	-28.3	-39.1	0.04	0.30	-71.8	-100.3	-122.7	-143.1	20.8	-107.71
4.50	92.49	1315.6	1298.6	1283.4	6.12	6.17	5.74	24.60	-19.5	-30.6	-40.1	0.05	0.16	-72.1	-101.1	-122.7	-143.3	35.5	-112.93
5.00	90.00	1361.6	1344.9	1329.8	6.13	6.12	5.61	24.60	-19.0	-33.2	-42.0	0.11	0.24	-71.9	-100.6	-122.6	-143.4	60.7	-117.12
5.50	87.10	1406.3	1389.9	1375.0	6.05	6.00	5.49	24.59	-18.6	-34.2	-39.7	0.16	0.37	-69.7	-99.3	-122.5	-143.7	86.7	-121.24
6.00	84.62	1449.6	1433.4	1418.8	5.92	5.95	5.45	24.57	-18.7	-36.0	-38.3	0.18	0.15	-71.4	-99.1	-122.3	-144.1	100.0	-122.43
6.50	81.95	1491.6	1475.7	1461.4	5.83	5.82	5.25	24.56	-19.0	-36.2	-38.7	0.19	0.35	-69.1	-99.8	-122.4	-143.9	148.1	-125.98
7.00	79.89	1532.3	1516.7	1502.7	5.67	5.64	5.15	24.53	-19.2	-33.6	-37.5	0.19	0.37	-69.2	-99.3	-122.1	-144.0	177.0	-127.64
7.50	77.91	1572.1	1556.6	1543.0	5.57	5.55	4.97	24.50	-19.2	-33.4	-39.3	0.19	0.22	-70.5	-99.0	-122.5	-143.7	211.6	-129.30
8.00	76.31	1611.0	1595.6	1582.2	5.38	5.40	4.87	24.47	-19.7	-30.7	-38.0	0.18	0.49	-69.1	-99.0	-122.1	-143.9	302.4	-132.56
8.50	74.80	1649.0	1633.7	1620.7	5.21	5.13	4.59	24.44	-20.3	-28.2	-36.6	0.17	0.11	-71.0	-98.0	-122.1	-143.8	361.5	-134.04
9.00	73.48	1686.3	1671.1	1658.2	5.07	5.04	4.43	24.42	-20.6	-29.5	-39.2	0.15	0.50	-68.1	-98.7	-122.3	-143.8	507.5	-137.32
10.00	70.61	1758.6	1743.8	1731.2	4.80	4.66	4.01	24.37	-21.4	-29.8	-36.2	0.13	0.54	-70.5	-98.7	-122.0	-143.4	606.7	-139.03
11.00	67.75	1828.0	1813.6	1801.5	4.29	4.20	3.60	24.32	-23.2	-31.1	-35.6	0.14	0.54	-69.1	-98.8	-122.2	-143.6	851.6	-141.98
12.00	64.82	1894.8	1880.7	1869.0	3.88	3.88	3.26	24.27	-25.1	-30.7	-35.8	0.16	0.56	-66.3	-98.0	-121.9	-143.5	1000.0	-143.17

*at 25°C unless mentioned otherwise



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