

Coaxial

Voltage Controlled Oscillator

ZX95-1700A+

Wide Band 950 to 1620 MHz

Features

- Low phase noise
- Low pulling
- Low pushing
- Protected by US patent 6,790,049



CASE STYLE: GB956

Applications

- R&D
- LAB
- Instrumentation
- Wireless communications
- Broadband wireless access

Connectors	Model	Price	Qty.
SMA	ZX95-1700A-S+	\$ 49.95 ea.	(1-9)

+ RoHS compliant in accordance with EU Directive (2002/95/EC)

The +Suffix has been added in order to identify RoHS Compliance. See our web site for RoHS Compliance methodologies and qualifications.

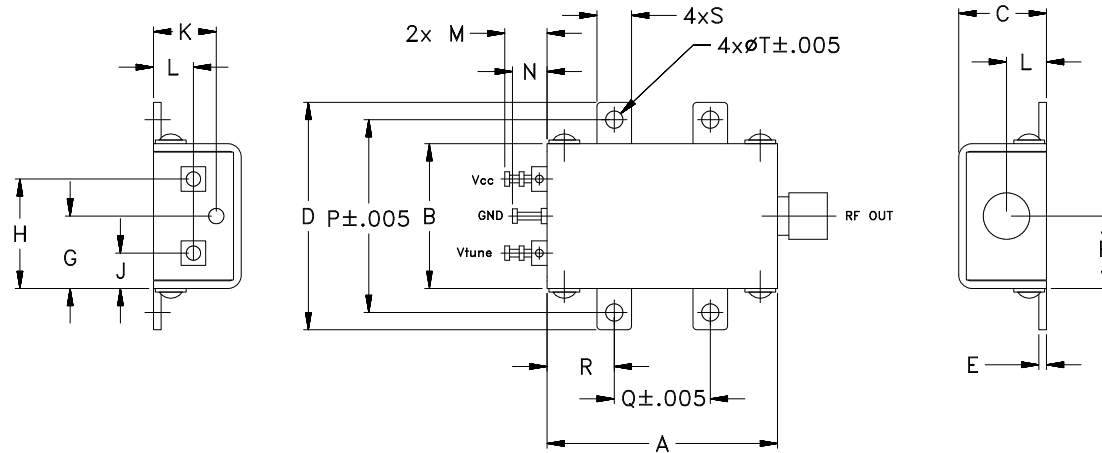
Electrical Specifications

MODEL NO.	FREQ. (MHz)		POWER OUTPUT (dBm)	PHASE NOISE dBc/Hz SSB at offset frequencies, kHz				TUNING					NON HARMONIC SPURIOUS (dBc)	HARMONICS (dBc)		PULLING pk-pk @ 12 dB (MHz)	PUSHING (MHz/V)	DC OPERATING POWER	
	Min.	Max.		Typ.	1	10	100	1000	VOLTAGE RANGE (V)	SENSITIVITY (MHz/V)	PORT CAP (pF)	3 dB MODULATION BANDWIDTH (MHz)		Typ.	Typ.			Max.	Typ.
ZX95-1700A+	950	1620	+6	-72	-100	-123	-144	0.5	10	70-110	50	60	-90	-20	-11	0.2	0.5	10	30

Maximum Ratings

Operating Temperature -55°C to 85°C
 Storage Temperature -55°C to 100°C
 Absolute Max. Supply Voltage (Vcc) 12V
 Absolute Max. Tuning Voltage (Vtune) 12V
 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	.45	.57	.18	.33	.21	.22	.18	1.00	.50	.35	.18	.106	GRAM
30.48	19.05	11.68	29.97	1.02	9.65	11.43	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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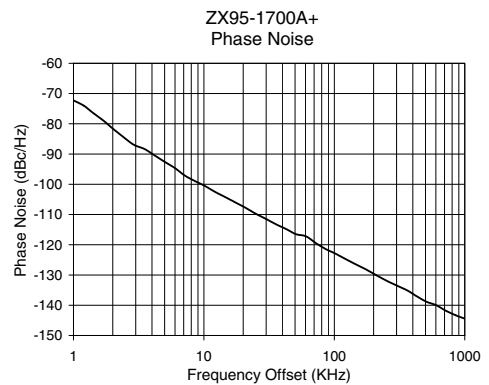
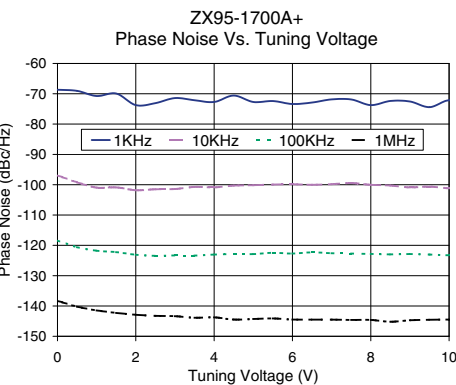
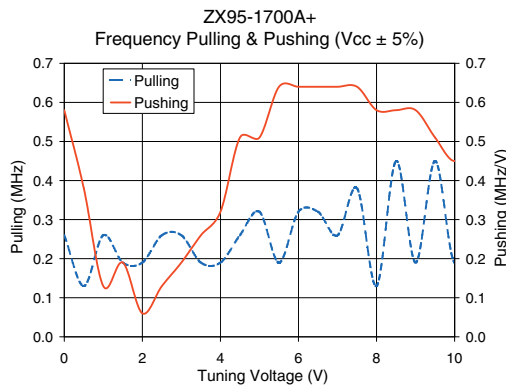
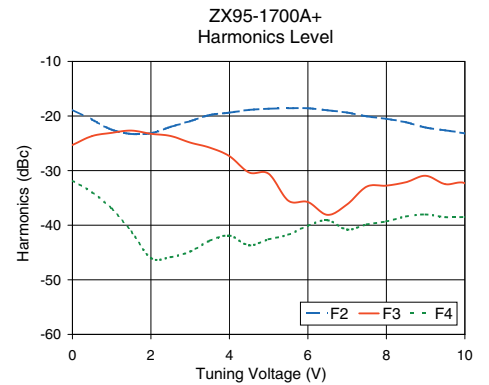
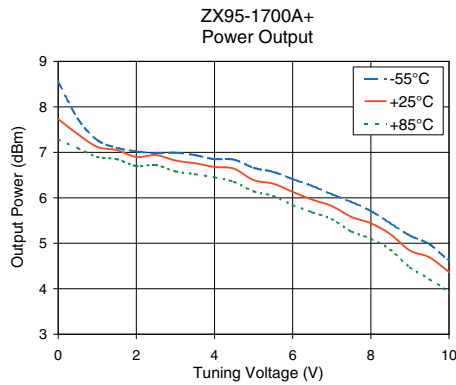
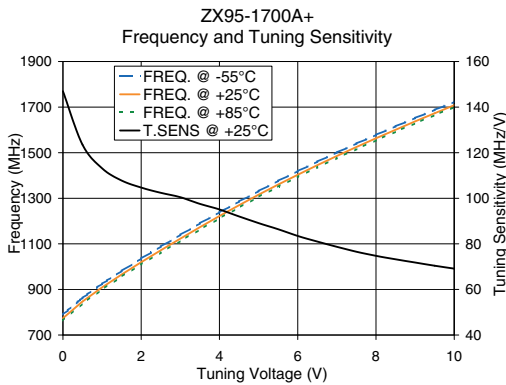
REV. OR
 M120402
 EDR-8510F3
 ZX95-1700A+
 RAV
 090830
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Performance Data & Curves*

ZX95-1700A+

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 1285 MHz (dBc/Hz)
		-55°C	+25°C	+85°C	-55°C	+25°C	+85°C		F2	F3	F4			1kHz	10kHz	100kHz	1MHz		
0.00	146.94	790.1	773.7	763.1	8.55	7.73	7.29	24.52	-18.9	-25.3	-31.9	0.58	0.26	-68.7	-96.9	-118.4	-138.3	1.0	-72.26
0.50	123.52	862.6	847.2	838.0	7.74	7.40	7.09	24.60	-20.7	-23.7	-34.0	0.38	0.13	-69.0	-99.2	-120.6	-140.2	2.0	-81.59
1.00	113.15	924.4	908.9	899.8	7.27	7.12	6.90	24.66	-22.5	-23.1	-37.0	0.13	0.26	-70.7	-101.0	-121.8	-141.5	3.5	-88.34
1.50	107.78	981.2	965.5	956.2	7.10	7.05	6.85	24.71	-23.3	-22.7	-41.2	0.19	0.19	-69.9	-100.9	-122.2	-142.3	6.0	-94.66
2.00	104.70	1035.6	1019.4	1009.7	7.02	6.90	6.70	24.75	-23.2	-23.3	-46.0	0.06	0.19	-73.8	-101.8	-123.1	-142.9	8.5	-98.89
2.50	102.40	1088.4	1071.7	1061.8	6.98	6.94	6.72	24.78	-22.0	-23.7	-45.9	0.13	0.26	-73.1	-101.5	-123.5	-143.3	10.0	-100.38
3.00	100.48	1139.7	1122.9	1112.8	6.99	6.82	6.58	24.80	-21.0	-24.9	-44.8	0.19	0.26	-71.4	-101.4	-123.3	-143.4	20.8	-107.76
3.50	97.54	1189.8	1173.2	1162.9	6.94	6.76	6.52	24.80	-19.8	-25.8	-42.9	0.26	0.19	-72.1	-100.7	-123.4	-143.9	35.5	-113.18
4.00	95.10	1238.6	1222.0	1211.7	6.85	6.68	6.45	24.80	-19.4	-27.3	-41.9	0.32	0.19	-72.7	-100.9	-123.0	-143.8	60.7	-117.24
5.00	89.09	1331.6	1315.5	1305.5	6.66	6.39	6.14	24.76	-18.7	-30.6	-42.6	0.51	0.32	-72.7	-100.2	-122.9	-144.3	86.7	-121.51
5.50	86.40	1376.1	1360.1	1350.2	6.57	6.31	6.04	24.72	-18.6	-35.5	-41.7	0.64	0.19	-72.4	-99.9	-122.4	-144.1	100.0	-122.75
6.00	83.46	1418.9	1403.3	1393.5	6.41	6.13	5.84	24.69	-18.6	-35.8	-40.1	0.64	0.32	-73.4	-99.9	-122.7	-144.5	148.1	-126.60
6.50	81.02	1460.5	1445.0	1435.5	6.26	5.96	5.68	24.65	-19.0	-38.1	-39.1	0.64	0.32	-72.9	-100.0	-122.3	-144.5	177.0	-128.29
7.00	78.72	1500.8	1485.5	1476.2	6.08	5.82	5.53	24.61	-19.4	-36.2	-40.8	0.64	0.26	-71.9	-99.8	-122.6	-144.5	211.6	-130.16
7.50	76.54	1540.0	1524.9	1515.6	5.91	5.58	5.26	24.56	-20.1	-32.9	-39.9	0.64	0.38	-71.9	-99.5	-122.7	-144.6	302.4	-133.53
8.00	74.75	1578.2	1563.1	1554.2	5.71	5.44	5.10	24.52	-20.5	-32.8	-39.3	0.58	0.13	-73.7	-100.0	-122.8	-144.6	361.5	-135.08
8.50	73.22	1615.4	1600.5	1591.7	5.44	5.20	4.86	24.48	-21.2	-32.1	-38.4	0.58	0.45	-72.4	-100.3	-123.0	-145.2	507.5	-138.83
9.00	71.81	1652.0	1637.1	1628.5	5.17	4.84	4.47	24.44	-22.1	-31.0	-38.0	0.58	0.19	-72.5	-100.9	-122.9	-144.7	606.7	-140.03
9.50	70.40	1687.7	1673.0	1664.7	4.98	4.69	4.21	24.40	-22.6	-32.5	-38.5	0.51	0.45	-74.4	-100.6	-123.0	-144.5	851.6	-143.31
10.00	69.12	1722.7	1708.2	1700.1	4.63	4.37	3.92	24.37	-23.2	-32.3	-38.5	0.45	0.19	-72.1	-101.2	-123.3	-144.5	1000.0	-144.42

*at 25°C unless mentioned otherwise



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