

Coaxial

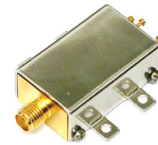
Voltage Controlled Oscillator

ZX95-1700W+

Linear Tuning 770 to 1700 MHz

Features

- Wide Bandwidth 770 to 1700 MHz
- High Power Output, +9 dBm typ.
- Linear Tuning
- Low Phase Noise
- Low Pushing
- Protected by US Patent 6,790,049



CASE STYLE: GB956

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

Applications

- R & D
- Lab
- Instrumentation
- Test Equipment

+ 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.

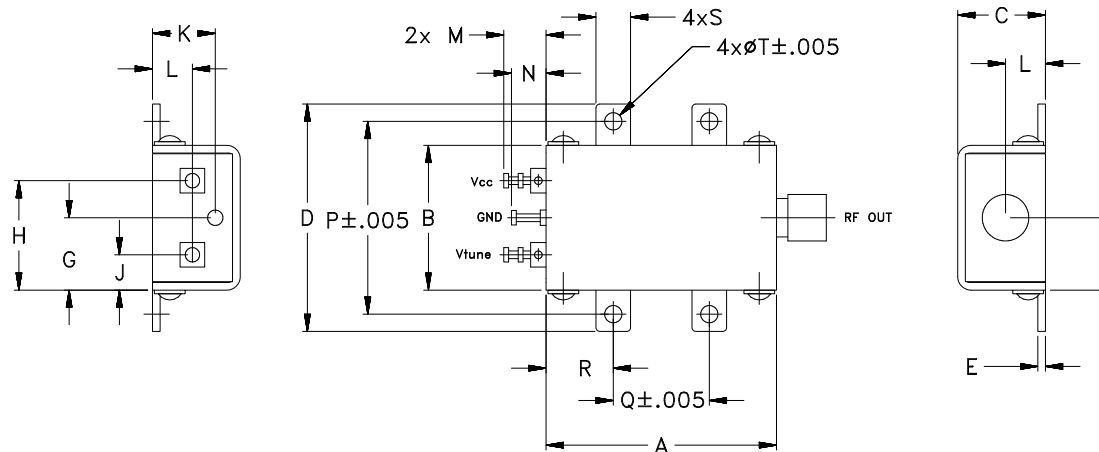
Electrical Specifications

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)	SENSI-TIVITY (MHz/V)	PORT CAP (pF)	3 dB MODULATION BANDWIDTH (MHz)		Typ.	Typ.	Max.			Typ.	Typ.
ZX95-1700W+	770	1700	+9	-74	-100	-121	-143	1	24	30 - 60	210	20	-90	-25	-14	7	0.5	12	35	

Maximum Ratings

Operating Temperature	-55°C to 85°C
Storage Temperature	-55°C to 100°C
Absolute Max. Supply Voltage (Vcc)	15V
Absolute Max. Tuning Voltage (Vtune)	30V
All specifications	50 ohm system

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



P.O. Box 350166, Brooklyn, New York 11235-0003 (718) 934-4500 Fax (718) 332-4661 For detailed performance specs & shopping online see Mini-Circuits web site



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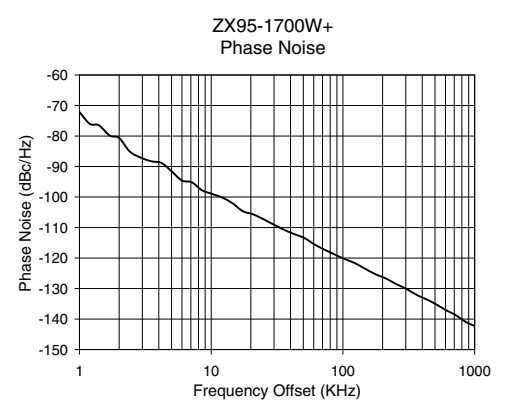
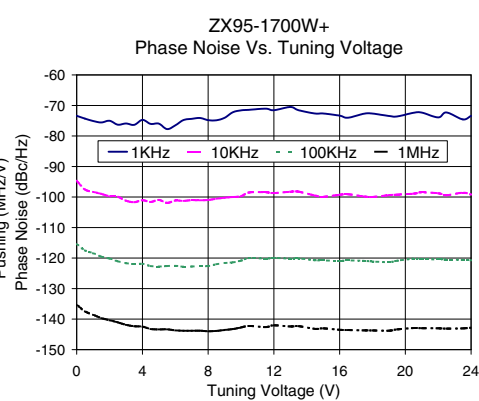
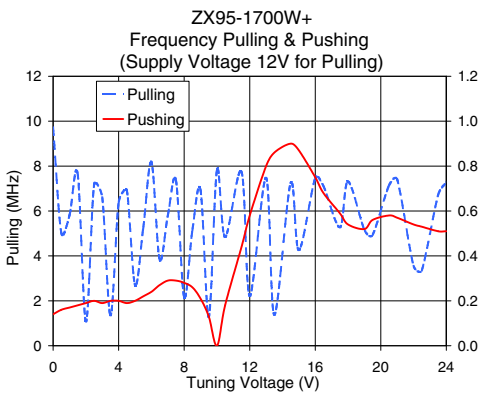
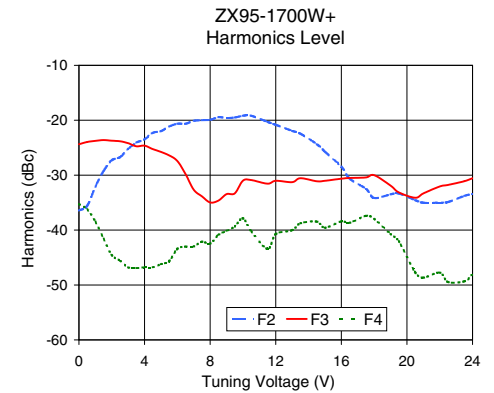
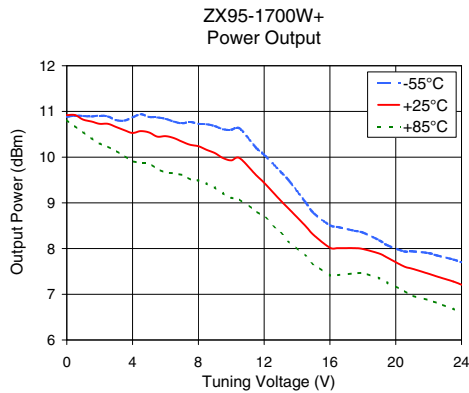
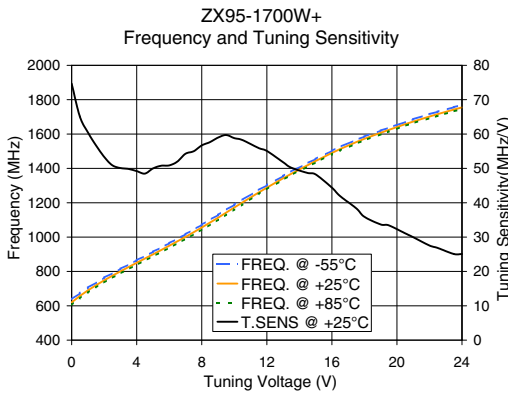
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ZX95-1700W+
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Page 1 of 2

Performance Data & Curves*

ZX95-1700W+

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 1235 MHz (dBc/Hz)
		-55°C	+25°C	+85°C	-55°C	+25°C	+85°C		F2	F3	F4			1kHz	10kHz	100kHz	1MHz		
0.00	74.67	637.9	619.9	604.0	10.88	10.92	10.81	27.13	-36.4	-24.4	-35.3	0.14	9.72	-73.4	-94.7	-115.4	-135.2	1.0	-72.10
0.50	65.12	673.5	657.2	642.8	10.91	10.92	10.68	27.16	-35.6	-24.0	-36.2	0.16	5.03	-74.3	-97.5	-117.5	-137.5	2.0	-80.65
1.00	60.49	705.7	689.8	676.1	10.90	10.82	10.55	27.17	-32.1	-23.8	-38.5	0.17	5.81	-75.1	-98.3	-118.4	-138.5	3.5	-88.26
2.00	53.33	763.6	748.3	735.3	10.91	10.73	10.30	27.21	-27.3	-23.7	-44.6	0.19	1.08	-75.0	-99.8	-120.2	-140.4	5.0	-91.55
3.00	50.10	814.9	800.5	788.2	10.81	10.66	10.14	27.25	-25.2	-24.2	-46.8	0.19	6.61	-75.9	-101.2	-121.7	-141.9	8.5	-97.75
4.00	49.21	865.4	850.4	838.3	10.87	10.53	9.91	27.30	-23.5	-24.6	-46.8	0.20	6.38	-74.7	-101.1	-121.9	-142.5	10.0	-98.88
5.00	49.99	914.3	899.3	887.5	10.88	10.54	9.87	27.35	-22.0	-25.8	-46.2	0.20	2.71	-76.0	-100.9	-122.8	-143.4	20.8	-105.65
6.00	50.87	964.6	949.7	937.7	10.84	10.46	9.66	27.41	-20.6	-27.4	-43.4	0.24	8.17	-76.5	-101.1	-122.5	-143.7	35.5	-110.70
7.00	54.27	1016.5	1001.1	989.4	10.74	10.34	9.61	27.48	-20.1	-32.7	-43.0	0.29	5.80	-74.4	-101.0	-122.8	-143.8	50.7	-113.39
8.00	56.68	1071.6	1055.7	1044.1	10.73	10.24	9.49	27.55	-19.9	-35.0	-42.5	0.28	2.17	-74.8	-101.0	-122.6	-144.0	86.7	-118.85
10.00	58.81	1188.5	1172.2	1161.1	10.60	9.93	9.11	27.64	-19.2	-31.0	-37.9	0.00	7.81	-71.6	-99.8	-120.9	-142.7	100.0	-120.07
12.00	55.08	1302.0	1288.0	1278.8	10.05	9.44	8.70	27.69	-20.8	-31.0	-40.7	0.58	2.22	-71.6	-98.7	-120.0	-142.0	148.1	-123.56
13.00	51.80	1355.6	1342.5	1334.0	9.68	9.05	8.34	27.65	-21.9	-31.3	-40.0	0.80	7.47	-70.5	-98.3	-120.2	-142.4	211.6	-126.70
15.00	48.25	1454.7	1442.8	1434.7	8.78	8.30	7.66	27.51	-25.7	-31.0	-39.6	0.87	4.26	-72.6	-99.9	-120.8	-143.0	361.5	-132.03
16.00	44.40	1502.5	1490.2	1481.6	8.51	8.02	7.41	27.49	-28.5	-30.6	-38.4	0.75	7.47	-73.4	-99.3	-120.9	-143.5	432.2	-133.56
18.00	35.91	1585.5	1572.5	1563.0	8.35	7.99	7.47	27.58	-34.2	-30.0	-38.0	0.54	7.31	-72.7	-100.0	-121.1	-143.7	507.5	-135.14
19.00	33.67	1620.1	1607.5	1598.4	8.18	7.89	7.35	27.59	-33.5	-31.9	-40.7	0.52	5.16	-73.4	-99.4	-121.3	-143.8	600.0	-136.98
21.00	29.98	1686.0	1672.7	1663.1	7.94	7.56	6.97	27.56	-35.0	-33.3	-48.7	0.57	7.41	-72.4	-98.5	-120.4	-143.0	712.4	-138.63
22.00	27.56	1715.6	1702.0	1692.2	7.90	7.45	6.87	27.56	-35.0	-32.1	-47.7	0.54	3.56	-73.9	-98.8	-120.4	-143.0	851.6	-140.87
24.00	25.09	1768.9	1754.8	1744.5	7.70	7.21	6.62	27.53	-33.4	-30.6	-48.1	0.51	7.27	-73.4	-99.2	-120.7	-142.8	1000.0	-142.28

*at 25°C unless mentioned otherwise



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