Coaxial

Voltage Controlled Oscillator ZX95-1700W

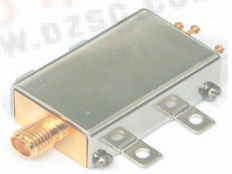
Linear Tuning 770 to 1700 MHz

Features

- Wide Bandwidth 770 to 1700[MHz]
- Linear Tuning
- Low Phase Noise
- Low Pushing

Applications

- R & D
- Lab
- Instrumentation
- Test Equipment



CASE STYLE: GB956
PRICE: $49.95 ea. QTY (1-9)

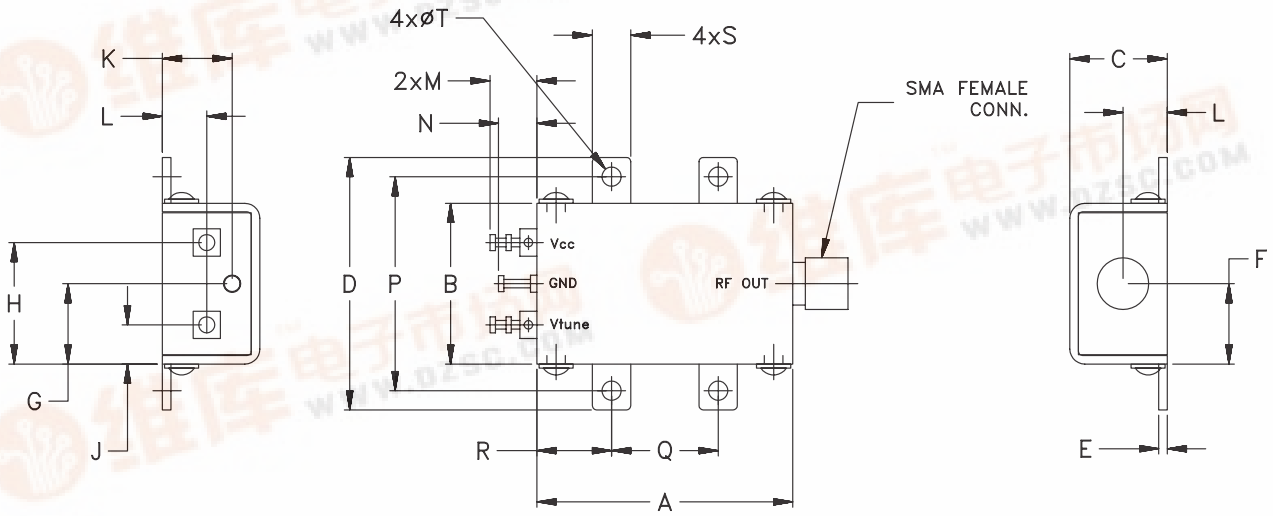
Electrical Specifications

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 dBr (MHz)	PUSHING (MHz/V)	DC OPERATING POWER	
								VOLTAGE RANGE (V)		SENSI-TIVITY (MHz/V)	PORT CAP (pF)	3 dB MODULATION BANDWIDTH (MHz)						Vcc (volts)	Current (mA) Max.
	Min.	Max.	Typ.	1	10	100	1000	Min.	Max.	Typ.	Typ.	Typ.	Typ.	Typ.	Max.	Typ.	Typ.		
ZX95-1700W	770	1700	9.0	-74	-100	-121	-143	1.0	24.0	30.0-60.0	210	20.0	-90	-25.0	-14.0	7.0	0.5	12.0	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	.09	grams
30.50	19.10	11.6	30.0	1.0	9.6	11.4	14.5	4.7	8.3	5.3	5.6	4.6	25.4	12.7	8.9	4.6	2.3	35.0

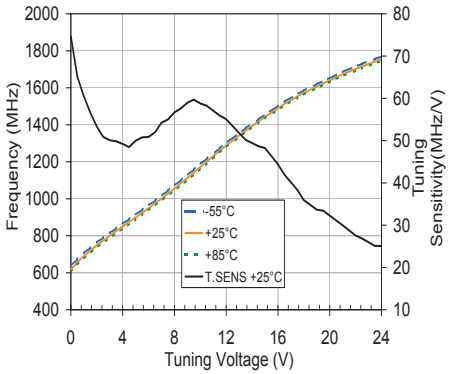
Performance Data & Curves*

ZX95-1700W

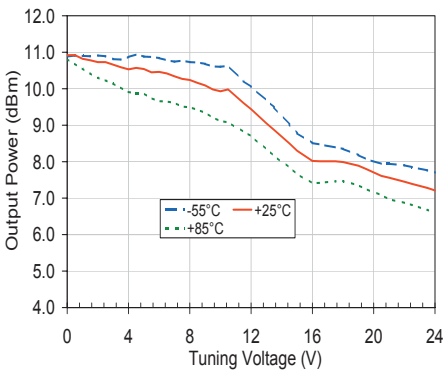
V TUNE	TUNING SENS (MHz/V)	FREQUENCY (MHz)			POWER OUTPUT (dBm)			Icc (mA)	HARMONICS (dBc)			FREQ. PUSHING (MHz/V)	FREQ. PULLING (MHz)	PHASE NOISE (dBc/Hz) at offsets				FREQ OFFSET (kHz)	PHASE NOISE at 1235 MHz (dBc/Hz)
		-55°C	+25°C	+85°C	-55°C	+25°C	+85°C		F2	F3	F4			1 kHz	10 kHz	100 kHz	1 MHz		
0.0	74.7	637.9	619.9	604.0	10.9	10.9	10.8	27	-36.4	-24.4	-35.3	0.14	9.72	-73.4	-94.7	-115.4	-135.2	1.00	-72.1
1.0	60.5	705.7	689.8	676.0	10.9	10.8	10.6	27	-32.1	-23.8	-38.5	0.17	5.81	-75.1	-98.3	-118.4	-138.5	2.00	-80.7
2.0	53.3	763.6	748.3	735.3	10.9	10.7	10.3	27	-27.3	-23.7	-44.6	0.19	1.08	-75.0	-99.8	-120.2	-140.4	3.50	-88.3
3.0	50.1	814.9	800.5	788.2	10.8	10.7	10.1	27	-25.2	-24.2	-46.8	0.19	6.61	-75.9	-101.2	-121.7	-141.9	5.00	-91.6
4.0	49.2	865.4	850.4	838.3	10.9	10.5	9.9	27	-23.5	-24.6	-46.8	0.20	6.38	-74.7	-101.1	-121.9	-142.5	8.50	-97.8
5.0	50.0	914.3	899.3	887.5	10.9	10.5	9.9	27	-22.0	-25.8	-46.2	0.20	2.71	-76.0	-100.9	-122.8	-143.4	10.00	-98.9
6.0	50.9	964.6	949.7	937.7	10.8	10.5	9.7	27	-20.6	-27.4	-43.4	0.24	8.17	-76.5	-101.1	-122.5	-143.7	20.80	-105.7
7.0	54.3	1016.5	1001.1	989.4	10.7	10.3	9.6	27	-20.1	-32.7	-43.0	0.29	5.80	-74.4	-101.0	-122.8	-143.8	35.50	-110.7
12.0	55.1	1302.0	1288.0	1278.8	10.1	9.4	8.7	28	-20.8	-31.0	-40.7	0.58	2.22	-71.6	-98.7	-120.0	-142.0	50.70	-113.4
13.0	51.8	1355.6	1342.5	1334.0	9.7	9.1	8.3	28	-21.9	-31.3	-40.0	0.80	7.47	-70.5	-98.3	-120.2	-142.4	86.70	-118.9
15.0	48.2	1454.7	1442.8	1434.7	8.8	8.3	7.7	28	-25.7	-31.0	-39.6	0.87	4.26	-72.6	-99.9	-120.8	-143.0	100.00	-120.1
16.0	44.4	1502.5	1490.2	1481.6	8.5	8.0	7.4	27	-28.5	-30.6	-38.4	0.75	7.47	-73.4	-99.3	-120.9	-143.5	211.60	-126.7
18.0	35.9	1585.5	1572.5	1563.0	8.4	8.0	7.5	28	-34.2	-30.0	-38.0	0.54	7.31	-72.7	-100.0	-121.1	-143.7	361.50	-132.0
19.0	33.7	1620.1	1607.5	1598.4	8.2	7.9	7.4	28	-33.5	-31.9	-40.7	0.52	5.16	-73.4	-99.4	-121.3	-143.8	507.50	-135.1
21.0	30.0	1686.0	1672.7	1663.1	7.9	7.6	7.0	28	-35.0	-33.3	-48.7	0.57	7.41	-72.4	-98.5	-120.4	-143.0	600.00	-137.0
22.0	27.6	1715.6	1702.0	1692.2	7.9	7.5	6.9	28	-35.0	-32.1	-47.7	0.54	3.56	-73.9	-98.8	-120.4	-143.0	851.60	-140.9
24.0	25.1	1768.9	1754.8	1744.5	7.7	7.2	6.6	28	-33.4	-30.6	-48.1	0.51	7.27	-73.4	-99.2	-120.7	-142.8	1000.00	-142.3

*at 25°C unless mentioned otherwise

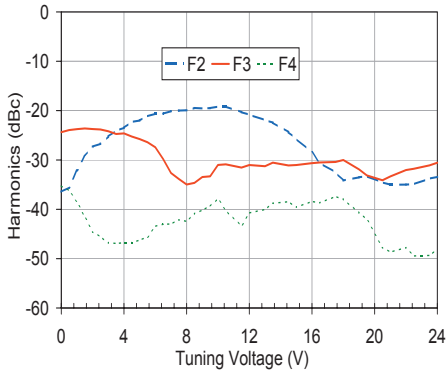
ZX95-1700W
Frequency and Tuning Sensitivity



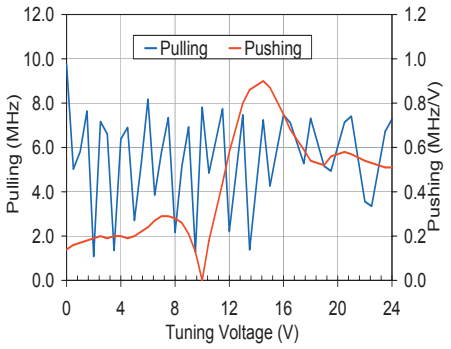
ZX95-1700W
Power Output



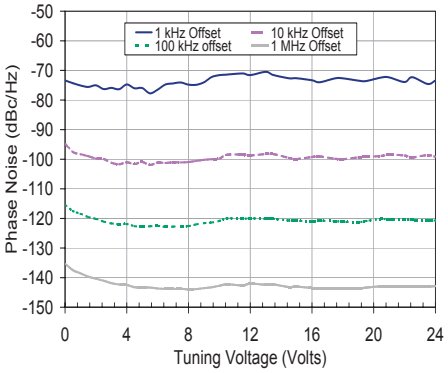
ZX95-1700W
Harmonics Level



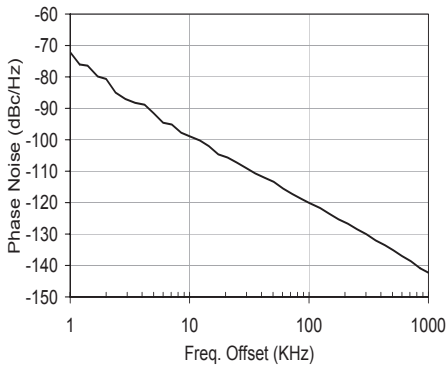
ZX95-1700W
Frequency Pushing and Pulling
(Supply Voltage 12V for Pushing)



ZX95-1700W
Phase Noise Vs. Tuning Voltage



ZX95-1700W
Phase Noise



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