

Coaxial

# Voltage Controlled Oscillator

ZX95-1600W

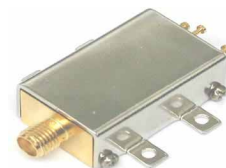
Linear Tuning 800 to 1600 MHz

## Features

- Low Phase Noise
- Wide Bandwidth
- Low Pushing
- Protected by US Patent 6,790,049

## Applications

- R & D
- Lab
- Instrumentation
- Test Equipment



CASE STYLE: GB956

Connectors	Model	Price	Qty.
SMA	ZX95-1600W-S	\$44.95 ea.	(1-9)

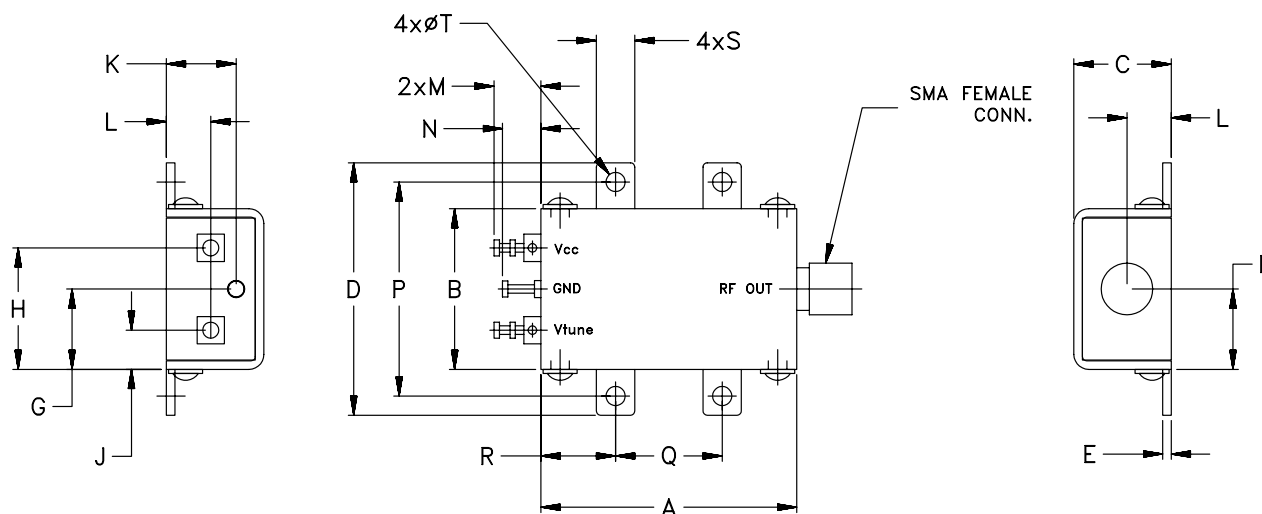
## Electrical Specifications

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 dBr (MHz)	PUSHING (MHz/V)	DC OPERATING POWER	
	Min.	Max.		1	10	100	1000	VOLTAGE RANGE (V)	SENSI-TIVITY (MHz/V)	PORT CAP (pF)	3 dB MODULATION BANDWIDTH (MHz)		Typ.	Max.			Vcc (volts)	Current (mA)
ZX95-1600W	800	1600	9.0	-72	-99	-122	-143	0.5 24.0	35.0-58.0	210	90.0	-90	-22.0	-15.0	10.0	0.3	11.5	35

## 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)	24V
All specifications	50 ohm system

## Outline Drawing



## Outline Dimensions (inch)

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

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REV. OR.  
M96760  
ED/R 7307/3  
ZX95-1600W  
RAV/URJ  
060220  
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# Performance Data & Curves\*

# ZX95-1600W

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 1200 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	74.6	645.6	627.3	607.1	9.8	9.5	9.3	26	-36.7	-26.1	-35.5	0.19	9.36	-70.9	-93.9	-114.2	-134.1	1.00	-70.6
1.0	57.9	712.9	697.1	680.3	9.7	9.4	9.2	26	-37.8	-25.2	-36.2	0.28	9.86	-73.3	-95.6	-116.3	-136.2	2.00	-80.4
2.0	51.2	768.0	752.8	737.4	9.7	9.4	8.9	26	-30.7	-24.4	-39.3	0.28	7.48	-73.6	-97.5	-117.7	-138.1	3.50	-87.0
3.0	49.5	818.7	803.6	788.2	9.8	9.3	8.9	26	-28.1	-24.4	-44.6	0.31	4.04	-74.0	-98.0	-118.7	-138.5	6.00	-92.8
6.0	50.5	967.4	951.1	935.6	10.0	9.4	8.9	26	-22.4	-24.4	-48.5	0.25	6.96	-73.7	-100.5	-121.0	-141.3	8.50	-96.2
7.0	53.7	1019.3	1002.3	986.5	10.2	9.5	9.0	26	-21.5	-25.8	-46.1	0.26	4.60	-71.8	-98.9	-121.2	-141.6	10.00	-98.2
8.0	56.2	1073.6	1056.0	1039.9	10.0	9.5	8.9	26	-21.0	-28.9	-43.2	0.31	11.82	-72.3	-99.5	-122.1	-142.7	20.80	-105.4
10.0	58.2	1188.8	1170.3	1154.1	10.2	9.4	8.8	26	-20.7	-34.6	-39.1	0.22	4.90	-69.6	-97.9	-122.2	-143.5	35.50	-112.4
12.0	52.7	1300.1	1282.7	1267.6	9.9	9.1	8.3	26	-20.6	-32.4	-38.2	0.16	4.98	-69.3	-97.5	-122.1	-144.2	60.70	-116.9
13.0	49.4	1350.5	1334.4	1320.5	9.8	8.8	8.3	26	-21.0	-31.3	-42.1	0.27	4.15	-69.9	-98.1	-122.4	-144.4	86.70	-120.9
15.0	43.2	1443.5	1429.0	1416.2	9.0	8.3	7.6	26	-21.4	-30.8	-41.1	0.28	6.53	-71.1	-98.8	-122.9	-145.2	100.00	-122.0
16.0	41.9	1486.4	1472.0	1459.5	8.9	8.0	7.4	26	-21.8	-30.5	-43.1	0.25	6.92	-72.2	-98.9	-123.3	-145.3	211.60	-129.5
18.0	37.9	1565.8	1551.9	1539.7	8.2	7.5	7.0	26	-22.7	-30.0	-46.7	0.17	6.33	-75.3	-100.1	-123.6	-144.8	361.50	-134.6
19.0	35.2	1602.7	1589.3	1577.1	8.0	7.3	6.7	26	-24.3	-29.9	-48.1	0.11	6.85	-72.2	-99.8	-123.2	-145.2	507.50	-137.7
21.0	30.7	1669.7	1656.2	1644.3	7.6	6.8	6.5	26	-27.0	-30.0	-47.1	0.04	7.26	-71.6	-99.6	-123.3	-144.6	600.00	-139.2
22.0	29.1	1699.9	1686.7	1674.6	7.3	6.6	6.3	26	-28.2	-30.2	-46.4	0.01	8.49	-72.4	-100.3	-123.5	-144.4	851.60	-142.4
24.0	25.9	1754.6	1741.4	1729.6	6.8	6.3	5.8	26	-30.2	-32.3	-47.6	0.02	8.26	-74.2	-101.0	-123.5	-144.2	1000.00	-143.6

\*at 25°C unless mentioned otherwise

