

Coaxial

# Voltage Controlled Oscillator

## ZX95-2760C+

Low Noise 2600 to 2760 MHz

### Features

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

### Applications

- r & d
- lab
- wireless communications
- test equipment



CASE STYLE: GB956

Connectors	Model	Price	Qty.
SMA	ZX95-2760C-S+	\$ 50.95 ea.	(1-9)

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

### Electrical Specifications

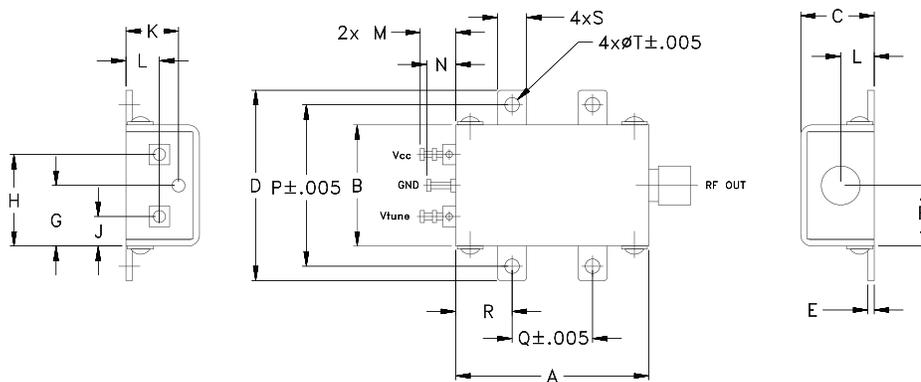
MODEL NO.	FREQ. (MHz)		POWER OUTPUT (dBm)	PHASE NOISE dBc/Hz SSB at offset frequencies,kHz				TUNING					NON HARMONIC SPURIOUS (dBc)	HARMONICS (dBc)		PULLING pk-pk @ 12 dB (MHz)	PUSHING (MHz/V)	DC OPERATING POWER				
	Min.	Max.		Typ.	1	10	100	1000	VOLTAGE RANGE (V)	SENSITIVITY (MHz/V)	PORT CAP (pF)	3 dB MODULATION BANDWIDTH (MHz)		Typ.	Typ.			Max.	Typ.	Typ.	Vcc (volts)	Current (mA)
ZX95-2760C+	2600	2760	+4	-85	-113	-133	-153	0.5	18	12-16	40	60	-90	-16	-9	0.8	0.3	8	37			

### Maximum Ratings

Operating Temperature	-55°C to 85°C
Storage Temperature	-55°C to 100°C
Absolute Max. Supply Voltage (Vcc)	9.5V
Absolute Max. Tuning Voltage (Vtune)	20.0V
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



For detailed performance specs & shopping online see web site

P.O. Box 350166, Brooklyn, New York 11235-0003 (718) 934-4500 Fax (718) 332-4661 The Design Engineers Search Engine Provides ACTUAL Data Instantly at [minicircuits.com](http://minicircuits.com)

**Notes:** 1. Performance and quality attributes and conditions not expressly stated in this specification sheet are intended to be excluded and do not form a part of this specification sheet. 2. Electrical specifications and performance data contained herein are based on Mini-Circuit's applicable established test performance criteria and measurement instructions. 3. The parts covered by this specification sheet are subject to Mini-Circuits standard limited warranty and terms and conditions (collectively, "Standard Terms"); Purchasers of this part are entitled to the rights and benefits contained therein. For a full statement of the Standard Terms and the exclusive rights and remedies thereunder, please visit Mini-Circuits' website at [www.minicircuits.com/MCLStore/terms.jsp](http://www.minicircuits.com/MCLStore/terms.jsp).

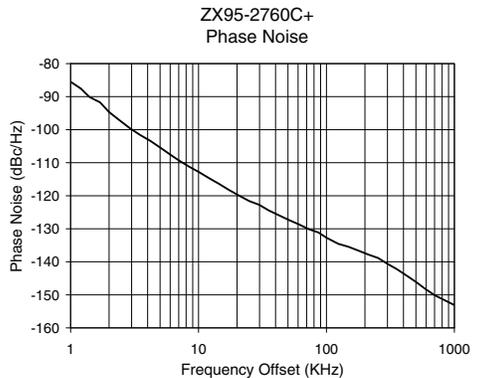
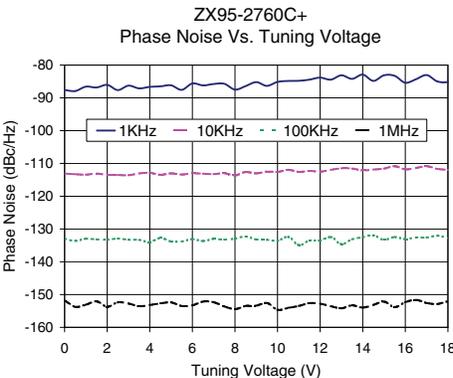
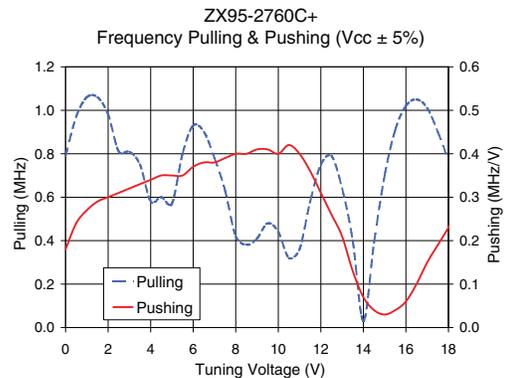
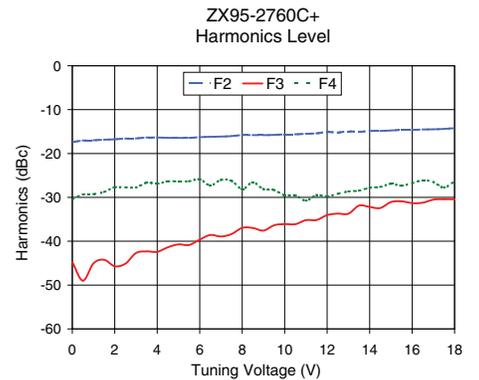
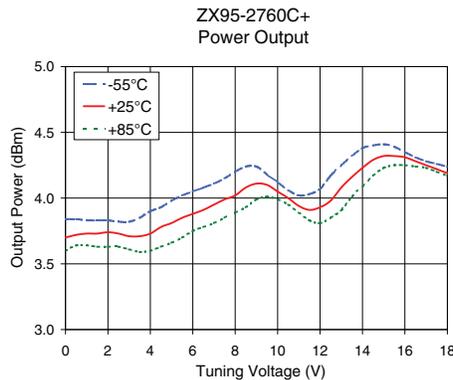
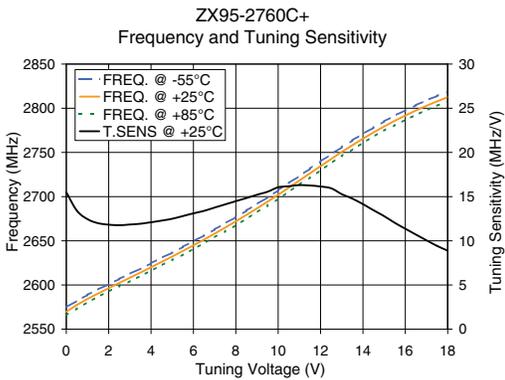
REV. OR  
M120661  
EDR-9152/1F2  
ZX95-2760C+  
RAV  
120904  
Page 1 of 2

# Performance Data & Curves\*

# ZX95-2760C+

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 2680 MHz (dBc/Hz)
		-55°C	+25°C	+85°C	-55°C	+25°C	+85°C		F2	F3	F4			1kHz	10kHz	100kHz	1MHz		
0.00	15.49	2574.8	2569.7	2565.6	3.84	3.70	3.60	30.36	-17.4	-44.7	-30.5	0.18	0.79	-87.6	-113.1	-133.0	-151.8	1.0	-85.49
0.50	13.40	2582.2	2577.4	2573.6	3.84	3.72	3.64	30.40	-17.0	-49.0	-29.3	0.24	0.97	-87.9	-113.3	-133.6	-153.8	2.0	-94.66
1.00	12.45	2588.8	2584.1	2580.4	3.83	3.73	3.64	30.44	-17.0	-45.0	-29.2	0.27	1.06	-86.6	-113.4	-133.0	-153.1	3.5	-101.63
2.00	11.82	2600.9	2596.4	2592.6	3.83	3.74	3.63	30.50	-16.8	-45.7	-27.7	0.30	0.98	-86.0	-113.5	-133.3	-153.7	6.0	-107.54
3.00	11.84	2612.7	2608.1	2604.3	3.82	3.71	3.61	30.56	-16.6	-42.7	-27.7	0.32	0.81	-86.3	-113.6	-133.3	-152.7	8.5	-111.26
4.00	12.10	2624.5	2620.0	2616.1	3.90	3.73	3.60	30.61	-16.4	-42.4	-26.9	0.34	0.58	-86.6	-112.9	-134.0	-153.2	10.0	-112.77
5.00	12.49	2636.8	2632.2	2628.2	3.98	3.81	3.66	30.67	-16.4	-40.7	-26.4	0.35	0.57	-86.2	-113.0	-133.8	-152.4	20.8	-119.98
6.00	13.11	2649.5	2644.9	2640.8	4.05	3.88	3.75	30.71	-16.3	-39.6	-25.9	0.37	0.93	-85.6	-113.0	-133.1	-153.3	35.5	-124.48
7.00	13.76	2662.8	2658.1	2653.9	4.11	3.95	3.81	30.76	-16.1	-38.9	-26.0	0.38	0.78	-85.8	-113.3	-133.1	-152.3	60.7	-128.65
8.00	14.48	2676.8	2672.1	2667.7	4.20	4.02	3.89	30.80	-15.8	-37.0	-28.2	0.40	0.42	-87.5	-113.7	-132.9	-154.4	86.7	-131.14
8.50	14.84	2684.1	2679.3	2674.9	4.24	4.08	3.93	30.83	-15.8	-37.0	-26.6	0.40	0.38	-86.4	-112.6	-132.3	-153.5	100.0	-132.71
9.00	15.21	2691.6	2686.7	2682.3	4.24	4.11	3.99	30.85	-15.8	-37.6	-28.1	0.41	0.41	-85.2	-113.0	-133.2	-153.4	148.1	-135.44
10.00	16.05	2707.2	2702.1	2697.6	4.12	4.05	3.99	30.87	-15.6	-36.1	-29.6	0.40	0.44	-85.1	-112.6	-133.6	-154.6	177.0	-136.59
12.00	16.14	2739.8	2734.5	2729.9	4.07	3.93	3.81	30.99	-15.1	-34.0	-29.8	0.31	0.75	-83.8	-112.5	-133.5	-152.8	211.6	-137.79
13.00	15.28	2755.9	2750.5	2745.8	4.25	4.08	3.91	31.05	-14.9	-33.7	-28.7	0.21	0.64	-83.1	-111.5	-134.6	-154.2	302.4	-140.71
14.00	14.15	2771.1	2765.6	2760.9	4.38	4.23	4.09	31.09	-14.9	-32.2	-27.8	0.07	0.03	-82.9	-112.1	-132.5	-154.0	355.1	-142.22
15.00	12.78	2785.1	2779.4	2774.6	4.41	4.32	4.23	31.10	-14.8	-31.1	-26.9	0.03	0.70	-83.1	-111.6	-133.3	-152.2	498.5	-146.03
16.00	11.36	2797.7	2791.8	2786.9	4.35	4.31	4.25	31.11	-14.6	-31.3	-26.8	0.06	1.02	-85.4	-111.8	-133.1	-152.3	595.9	-148.28
17.00	10.05	2808.9	2802.8	2797.8	4.28	4.25	4.23	31.13	-14.5	-30.5	-26.5	0.15	1.01	-83.0	-110.9	-132.6	-152.6	982.3	-152.95
18.00	8.88	2818.7	2812.5	2807.5	4.24	4.19	4.17	31.18	-14.2	-30.4	-26.4	0.23	0.77	-85.1	-111.9	-132.7	-152.1	1000.0	-153.06

\*at 25°C unless mentioned otherwise



For detailed performance specs & shopping online see web site

P.O. Box 350166, Brooklyn, New York 11235-0003 (718) 934-4500 Fax (718) 332-4661 The Design Engineers Search Engine Provides ACTUAL Data Instantly at [minicircuits.com](http://minicircuits.com)

IF/RF MICROWAVE COMPONENTS

**Notes:** 1. Performance and quality attributes and conditions not expressly stated in this specification sheet are intended to be excluded and do not form a part of this specification sheet. 2. Electrical specifications and performance data contained herein are based on Mini-Circuit's applicable established test performance criteria and measurement instructions. 3. The parts covered by this specification sheet are subject to Mini-Circuits standard limited warranty and terms and conditions (collectively, "Standard Terms"); Purchasers of this part are entitled to the rights and benefits contained therein. For a full statement of the Standard Terms and the exclusive rights and remedies thereunder, please visit Mini-Circuits' website at [www.minicircuits.com/MCLStore/terms.jsp](http://www.minicircuits.com/MCLStore/terms.jsp).