

Coaxial

# Voltage Controlled Oscillator

## ZX95-930C+

Low Noise 902 to 930 MHz

### Features

- linear tuning characteristics
- low phase noise
- low pushing & pulling
- 5V tuning voltage range
- protected by US patent 6,790,049

### Applications

- r & d
- lab
- instrumentation
- RFID reader
- defense communication



CASE STYLE: GB956

Connectors	Model	Price	Qty.
SMA	ZX95-930C-S+	\$50.95ea.	(1-9)

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

### Electrical Specifications

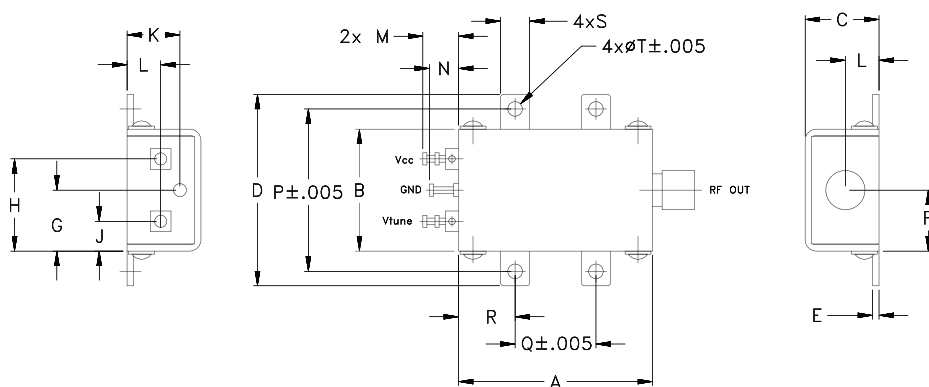
MODEL NO.	FREQ. (MHz)		POWER OUTPUT (dBm)	PHASE NOISE dBc/Hz SSB at offset frequencies, kHz				TUNING				NON HARMONIC SPURIOUS (dBc)	HARMONICS (dBc)		PULLING pk-pk @ 12 dB (MHz)	PUSHING (MHz/V)	DC OPERATING POWER		
	Min.	Max.		Typ.	1	10	100	1000	VOLTAGE RANGE (V)	SENSITIVITY (MHz/V)	PORT CAP (pF)		3 dB MODULATION BANDWIDTH (MHz)	Typ.			Max.	Vcc (volts)	Current (mA)
ZX95-930C+	902	930	+5.5	-88	-117	-137	-157	0	5	18	30	140	-90	-28	-20	0.5	0.2	5	30

### Maximum Ratings

Operating Temperature	-55°C to 85°C
Storage Temperature	-55°C to 100°C
Absolute Max. Supply Voltage (Vcc)	7V
Absolute Max. Tuning Voltage (Vtune)	7V
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

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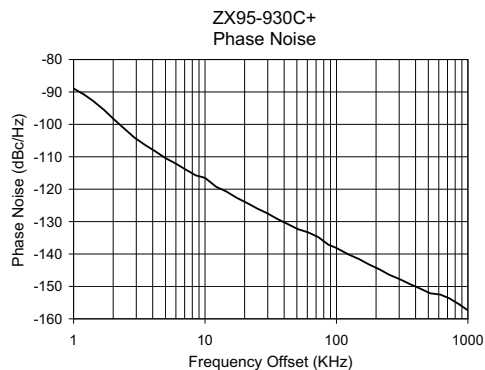
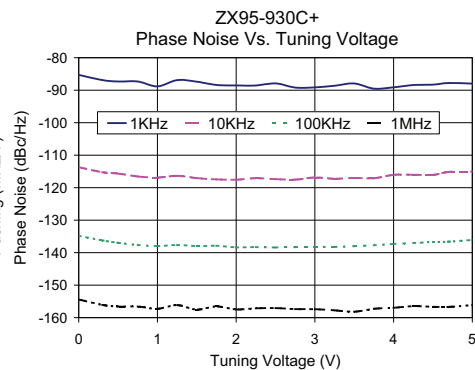
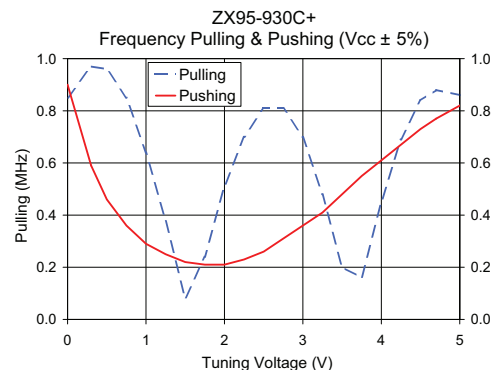
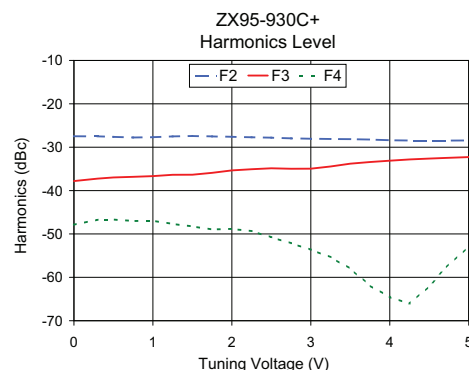
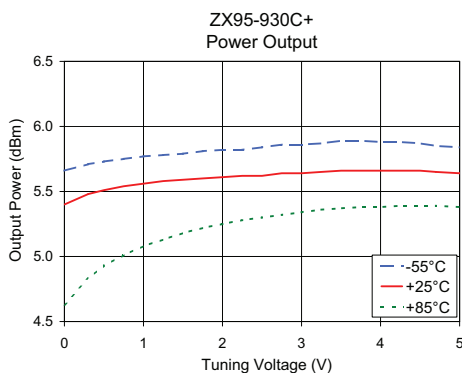
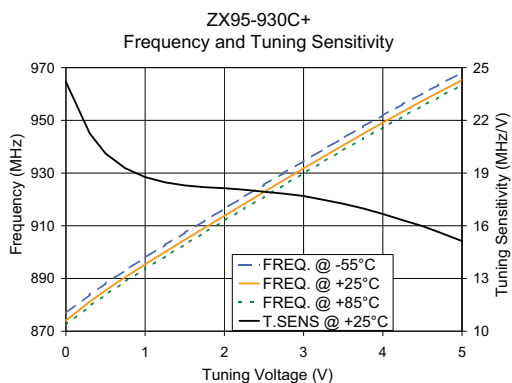
REV. OR  
M111009  
EDR-8347F2  
ZX95-930C+  
RAV  
120902  
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# Performance Data & Curves\*

# ZX95-930C+

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 915 MHz (dBc/Hz)
		-55°C	+25°C	+85°C	-55°C	+25°C	+85°C		F2	F3	F4			1kHz	10kHz	100kHz	1MHz		
0.00	24.18	876.9	874.1	872.4	5.66	5.40	4.63	21.80	-27.5	-37.8	-47.9	0.90	0.85	-85.3	-113.7	-134.9	-154.4	1.0	-88.94
0.30	21.26	883.9	881.2	879.5	5.71	5.48	4.83	21.88	-27.5	-37.3	-46.7	0.59	0.97	-86.9	-115.3	-136.2	-156.1	2.0	-98.25
0.50	20.11	888.1	885.5	883.9	5.73	5.51	4.93	21.92	-27.6	-37.0	-46.7	0.46	0.96	-87.3	-115.7	-137.0	-156.6	3.5	-106.35
0.75	19.27	893.1	890.5	888.9	5.75	5.54	5.01	21.97	-27.8	-36.8	-47.0	0.36	0.85	-87.3	-116.6	-137.7	-156.6	6.0	-112.11
1.00	18.77	898.0	895.4	893.7	5.77	5.56	5.08	22.02	-27.7	-36.7	-47.0	0.29	0.64	-88.8	-116.9	-138.0	-157.3	8.5	-115.74
1.25	18.47	902.7	900.1	898.3	5.78	5.58	5.13	22.07	-27.5	-36.4	-47.7	0.25	0.38	-86.9	-116.4	-137.6	-156.2	10.0	-116.51
1.50	18.30	907.3	904.7	902.9	5.79	5.59	5.18	22.11	-27.4	-36.4	-48.3	0.22	0.08	-87.4	-117.1	-138.0	-157.5	20.8	-124.21
1.75	18.19	911.9	909.2	907.5	5.81	5.60	5.22	22.16	-27.5	-35.9	-49.0	0.21	0.24	-88.4	-117.4	-137.9	-156.6	35.5	-129.18
2.00	18.13	916.5	913.8	912.0	5.82	5.61	5.25	22.21	-27.6	-35.4	-48.8	0.21	0.51	-88.5	-117.5	-138.4	-157.5	60.7	-133.31
2.25	18.05	921.0	918.3	916.5	5.82	5.62	5.28	22.26	-27.7	-35.1	-49.4	0.23	0.70	-88.6	-117.1	-138.3	-157.1	86.7	-137.10
2.50	17.93	925.6	922.8	921.0	5.84	5.62	5.30	22.30	-27.8	-34.9	-50.8	0.26	0.81	-87.9	-117.4	-138.4	-157.1	100.0	-138.14
2.75	17.83	930.1	927.3	925.5	5.86	5.64	5.32	22.35	-28.0	-35.0	-52.2	0.31	0.81	-89.2	-117.5	-138.3	-157.4	148.1	-141.55
3.00	17.70	934.5	931.8	929.9	5.86	5.64	5.34	22.39	-28.1	-35.0	-53.7	0.36	0.70	-89.1	-116.9	-138.2	-157.4	177.0	-143.24
3.25	17.47	939.0	936.2	934.3	5.87	5.65	5.36	22.44	-28.1	-34.5	-55.4	0.41	0.48	-88.6	-117.3	-138.2	-157.8	211.6	-144.69
3.50	17.25	943.3	940.6	938.7	5.89	5.66	5.37	22.48	-28.1	-33.8	-58.0	0.48	0.20	-87.9	-117.0	-138.0	-158.2	302.4	-147.76
3.75	16.99	947.6	944.9	943.0	5.89	5.66	5.38	22.51	-28.2	-33.4	-61.9	0.55	0.16	-89.5	-117.1	-137.7	-157.3	361.5	-149.25
4.00	16.67	951.9	949.1	947.3	5.88	5.66	5.38	22.55	-28.4	-33.1	-64.5	0.61	0.45	-89.1	-116.0	-137.3	-157.0	516.6	-152.11
4.50	15.98	960.2	957.4	955.5	5.87	5.66	5.39	22.62	-28.5	-32.6	-62.0	0.73	0.84	-88.3	-116.1	-136.7	-156.7	617.6	-152.54
4.70	15.65	963.4	960.6	958.7	5.85	5.65	5.39	22.64	-28.5	-32.5	-58.0	0.77	0.88	-87.8	-115.2	-136.6	-156.7	866.9	-155.63
5.00	15.13	968.1	965.3	963.4	5.84	5.64	5.38	22.69	-28.5	-32.3	-52.8	0.82	0.86	-88.0	-115.0	-136.1	-156.1	1000.0	-157.40

\*at 25°C unless mentioned otherwise



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