

Coaxial

# Voltage Controlled Oscillator

## ZX95-1094+

5V Tuning for PLL IC's 1094 to 1100 MHz

### Features

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

### Applications

- r & d
- lab
- instrumentation
- wireless communications
- cellular infrastructure



CASE STYLE: GB956

Connectors	Model	Price	Qty.
SMA	ZX95-1094-S+	\$ 44.95 ea.	(1-9)

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

### Electrical Specifications

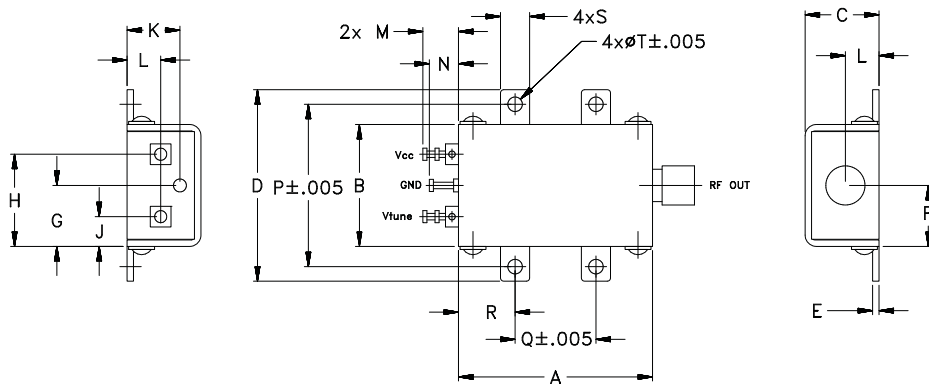
MODEL NO.	FREQ. (MHz)		POWER OUTPUT (dBm)	PHASE NOISE dBc/Hz SSB at offset frequencies, kHz				TUNING					NON HARMONIC SPURIOUS (dBc)	HARMONICS (dBc)		PULLING pk-pk @ 12 dB (MHz)	PUSHING (MHz/V)	DC OPERATING POWER	
	Min.	Max.		Typ.	1	10	100	1000	VOLTAGE RANGE (V)	SENSITIVITY (MHz/V)	PORT CAP (pF)	3 dB MODULATION BANDWIDTH (MHz)		Typ.	Max.			Typ.	Max.
ZX95-1094+	1094	1100	+0.2	-82	-106	-126	-146	0.5	4.5	29	20	85	-90	-20	-10	0.5	0.3	5	35

### Maximum Ratings

Operating Temperature	-55°C to 85°C
Storage Temperature	-55°C to 100°C
Absolute Max. Supply Voltage (Vcc)	6.5V
Absolute Max. Tuning Voltage (Vtune)	7.0V
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

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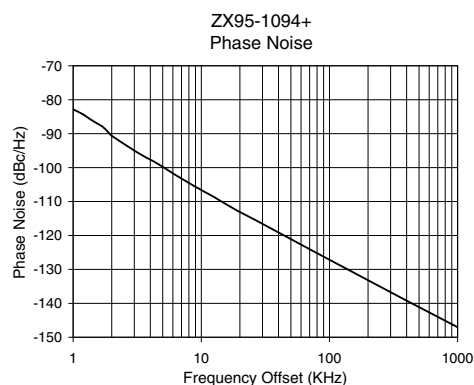
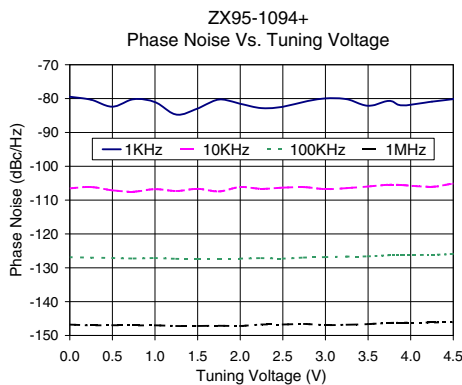
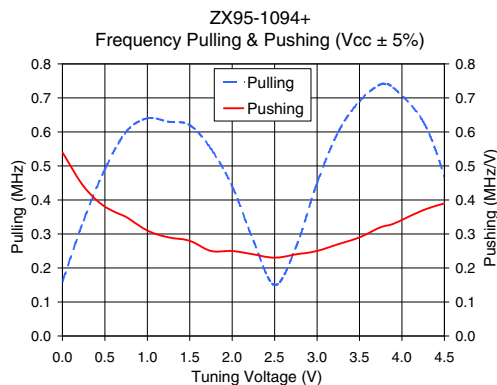
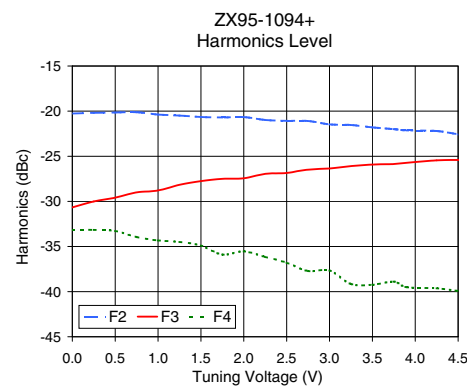
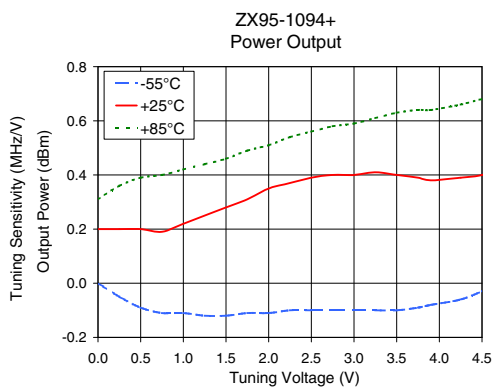
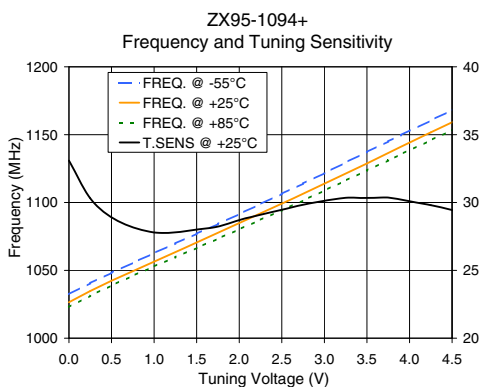
REV. A  
M137940  
EDR-9225F2  
ZX95-1094+  
RAV  
120625  
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# Performance Data & Curves\*

# ZX95-1094+

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 1097 MHz (dBc/Hz)
		-55°C	+25°C	+85°C	-55°C	+25°C	+85°C		F2	F3	F4			1kHz	10kHz	100kHz	1MHz		
0.00	33.09	1032.4	1026.5	1022.9	0.00	0.20	0.31	25.35	-20.3	-30.7	-33.2	0.54	0.16	-79.5	-106.5	-126.9	-146.8	1.0	-82.84
0.25	30.31	1040.5	1034.8	1031.3	-0.05	0.20	0.36	25.38	-20.2	-30.0	-33.2	0.44	0.34	-80.3	-106.1	-127.0	-147.0	2.0	-90.64
0.50	28.91	1048.2	1042.4	1038.8	-0.09	0.20	0.39	25.40	-20.2	-29.6	-33.3	0.38	0.49	-82.4	-107.1	-127.1	-147.0	3.5	-96.55
0.75	28.18	1055.5	1049.6	1046.0	-0.11	0.19	0.40	25.43	-20.1	-29.0	-34.0	0.35	0.60	-80.2	-107.5	-127.3	-147.0	6.0	-101.70
1.00	27.79	1062.7	1056.6	1052.9	-0.11	0.22	0.42	25.45	-20.4	-28.8	-34.3	0.31	0.64	-81.0	-106.8	-127.1	-147.0	8.5	-105.09
1.25	27.80	1069.8	1063.6	1059.7	-0.12	0.25	0.44	25.47	-20.5	-28.2	-34.5	0.29	0.63	-84.7	-107.3	-127.4	-147.2	10.0	-106.61
1.50	28.01	1077.0	1070.5	1066.5	-0.12	0.28	0.46	25.49	-20.7	-27.8	-34.9	0.28	0.62	-82.9	-106.7	-127.4	-147.2	20.8	-113.42
1.75	28.23	1084.2	1077.5	1073.3	-0.11	0.31	0.49	25.52	-20.7	-27.5	-35.9	0.25	0.55	-80.3	-107.4	-127.3	-147.1	35.5	-118.08
2.00	28.70	1091.5	1084.6	1080.2	-0.11	0.35	0.51	25.53	-20.7	-27.4	-35.5	0.25	0.44	-81.5	-106.1	-127.3	-147.2	60.7	-122.79
2.25	29.10	1098.9	1091.8	1087.2	-0.10	0.37	0.54	25.56	-21.0	-27.0	-36.2	0.24	0.28	-82.8	-106.7	-127.2	-146.8	85.2	-125.80
2.50	29.46	1106.4	1099.0	1094.3	-0.10	0.39	0.56	25.58	-21.1	-26.9	-36.8	0.23	0.15	-82.4	-106.3	-127.3	-146.8	100.0	-127.17
2.75	29.84	1114.0	1106.4	1101.5	-0.10	0.40	0.58	25.60	-21.1	-26.5	-37.7	0.24	0.26	-80.9	-106.2	-127.0	-146.6	142.9	-130.26
3.00	30.12	1121.7	1113.9	1108.8	-0.10	0.40	0.59	25.62	-21.5	-26.4	-37.7	0.25	0.45	-80.0	-106.8	-126.9	-147.0	200.6	-133.27
3.25	30.35	1129.4	1121.4	1116.2	-0.10	0.41	0.61	25.64	-21.5	-26.1	-39.2	0.27	0.60	-80.2	-106.5	-126.7	-146.8	281.6	-136.16
3.50	30.33	1137.2	1129.0	1123.6	-0.10	0.40	0.63	25.66	-21.8	-25.9	-39.2	0.29	0.69	-82.1	-106.0	-126.6	-146.7	330.7	-137.51
3.75	30.36	1145.0	1136.6	1131.1	-0.09	0.39	0.64	25.68	-22.0	-25.9	-38.9	0.32	0.74	-80.7	-105.4	-126.3	-146.3	464.2	-140.50
3.90	30.21	1149.7	1141.1	1135.5	-0.08	0.38	0.64	25.69	-22.1	-25.7	-39.5	0.33	0.73	-82.0	-105.6	-126.2	-146.2	554.9	-142.01
4.25	29.80	1160.5	1151.7	1145.9	-0.06	0.39	0.66	25.72	-22.2	-25.5	-39.6	0.37	0.63	-80.9	-106.1	-126.2	-146.2	914.6	-146.27
4.50	29.44	1168.1	1159.1	1153.3	-0.03	0.40	0.68	25.74	-22.6	-25.4	-39.9	0.39	0.47	-80.2	-105.1	-125.9	-146.1	1000.0	-147.07

\*at 25°C unless mentioned otherwise



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