

Coaxial

Voltage Controlled Oscillator

ZX95-928C+

Low Noise 902 to 928 MHz

Features

- high power output, +10 dBm typ.
- linear tuning characteristics
- very low phase noise
- low pushing
- 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	ZX95-928C-S+	\$50.95ea.	(1-9)

+RoHS Compliant

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

Electrical Specifications

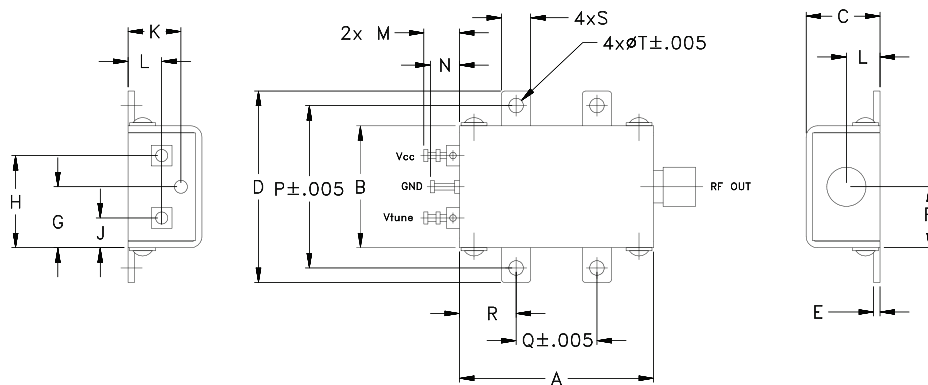
MODEL NO.	FREQ. (MHz)		POWER OUTPUT (dBm)	PHASE NOISE dBc/Hz SSB at offset frequencies,kHz Typ.				TUNING					NON HARMONIC SPURIOUS (dBc)	HARMONICS (dBc)		PULLING pk-pk @ 12 dB (MHz)	PUSHING (MHz/V)	DC OPERATING POWER Vcc Current (volts) (mA)	
								VOLTAGE RANGE (V)	SENSI- TIVITY (MHz/V)	PORT CAP (pF)	3 dB MODULATION BANDWIDTH (MHz)								
	Min.	Max.		Typ.	1	10	100	1000	Min.	Max.	Typ.	Typ.		Typ.	Typ.			Typ.	Max.
ZX95-928C+	902	928	+10	-89	-117	-138	-157	0.5	5	18	20	130	-90	-22	-15	1	0.2	12	32

Maximum Ratings

Operating Temperature	-55°C to 85°C
Storage Temperature	-55°C to 100°C
Absolute Max. Supply Voltage (Vcc)	14V
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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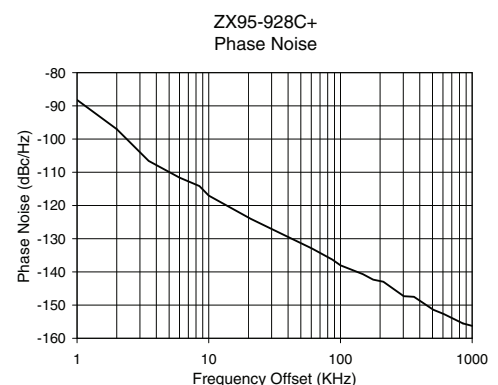
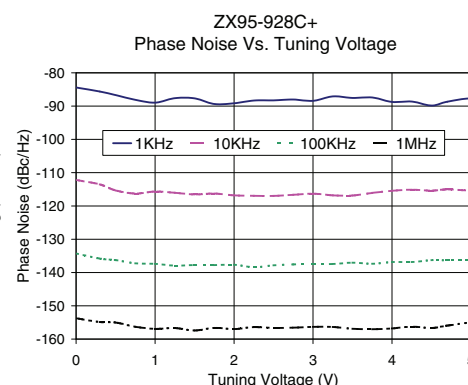
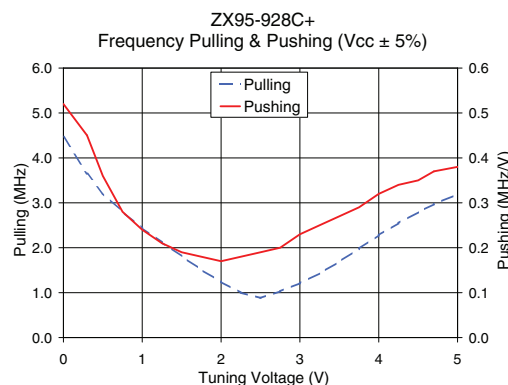
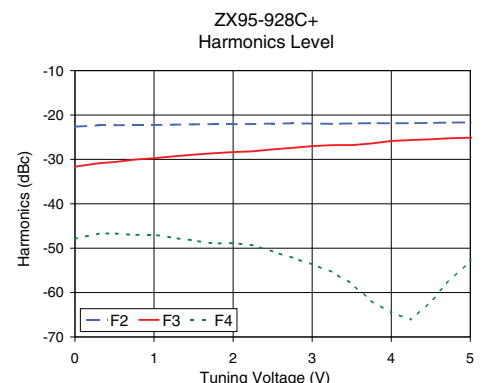
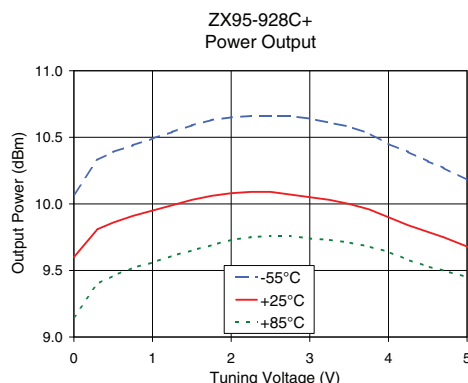
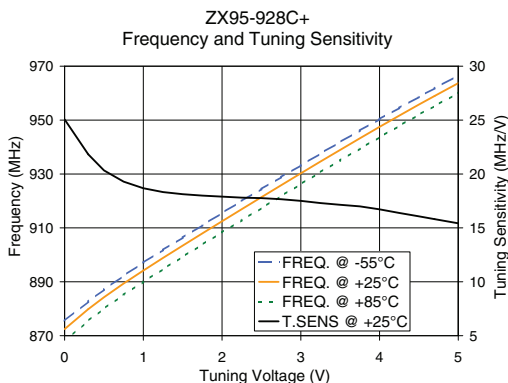
REV. OR
M109970
EDR-8303F2
ZX95-928C+
RAV
120902
Page 1 of 2

Performance Data & Curves*

ZX95-928C+

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	25.07	875.5	872.5	868.0	10.07	9.60	9.15	26.04	-22.6	-31.6	-47.9	0.52	4.47	-84.4	-112.2	-134.3	-153.8	1.0	-88.21
0.50	20.33	887.1	884.3	880.0	10.39	9.86	9.46	26.23	-22.3	-30.6	-46.7	0.36	3.21	-86.7	-115.3	-136.3	-155.0	2.0	-97.01
0.75	19.29	892.2	889.4	885.2	10.44	9.91	9.52	26.26	-22.3	-30.1	-47.0	0.28	2.80	-88.1	-116.3	-137.2	-156.3	3.5	-106.58
1.00	18.68	897.1	894.2	890.0	10.49	9.95	9.56	26.29	-22.3	-29.7	-47.0	0.24	2.44	-89.0	-115.7	-137.4	-156.9	6.0	-111.62
1.25	18.33	901.8	898.8	894.7	10.54	9.99	9.61	26.31	-22.2	-29.3	-47.7	0.21	2.12	-87.6	-116.0	-137.9	-156.7	8.5	-114.16
1.50	18.13	906.4	903.4	899.3	10.59	10.03	9.65	26.34	-22.1	-28.9	-48.3	0.19	1.81	-87.7	-116.5	-137.7	-157.4	10.0	-117.02
1.75	17.99	911.0	908.0	903.8	10.63	10.06	9.69	26.35	-22.1	-28.6	-49.0	0.18	1.51	-89.4	-116.3	-137.8	-156.6	20.8	-124.00
2.00	17.90	915.5	912.5	908.4	10.65	10.08	9.73	26.37	-22.1	-28.4	-48.8	0.17	1.24	-89.1	-116.8	-137.7	-157.0	35.5	-128.47
2.25	17.80	920.0	916.9	912.9	10.66	10.09	9.75	26.38	-22.0	-28.2	-49.4	0.18	1.00	-88.3	-117.0	-138.4	-156.4	60.7	-132.95
2.50	17.76	924.4	921.4	917.3	10.66	10.09	9.76	26.40	-21.9	-27.7	-50.8	0.19	0.88	-88.3	-117.0	-137.8	-156.7	86.7	-136.28
2.75	17.66	928.8	925.8	921.8	10.66	10.07	9.76	26.41	-21.9	-27.4	-52.2	0.20	1.03	-88.0	-116.6	-137.6	-156.6	100.0	-138.02
3.00	17.50	933.2	930.2	926.3	10.64	10.05	9.74	26.42	-21.9	-27.0	-53.7	0.23	1.21	-88.4	-116.3	-137.5	-156.3	148.1	-140.68
3.25	17.30	937.6	934.6	930.7	10.61	10.03	9.73	26.43	-22.0	-26.8	-55.4	0.25	1.43	-87.1	-116.8	-137.5	-156.4	177.0	-142.34
3.50	17.14	941.9	938.9	935.1	10.58	10.00	9.71	26.44	-21.9	-26.8	-58.0	0.27	1.69	-87.6	-116.9	-137.1	-156.9	211.6	-142.96
3.75	17.00	946.1	943.2	939.4	10.53	9.96	9.68	26.44	-21.8	-26.4	-61.9	0.29	1.98	-87.4	-116.1	-137.4	-157.0	302.4	-147.33
4.00	16.72	950.4	947.5	943.7	10.45	9.90	9.64	26.45	-21.9	-25.8	-64.5	0.32	2.28	-88.8	-115.5	-136.9	-156.8	361.5	-147.51
4.25	16.38	954.5	951.7	947.9	10.39	9.84	9.58	26.46	-21.8	-25.6	-66.1	0.34	2.55	-88.6	-115.1	-136.9	-156.3	507.5	-151.42
4.50	16.07	958.6	955.8	952.0	10.32	9.79	9.53	26.46	-21.8	-25.5	-62.0	0.35	2.79	-89.8	-115.4	-136.3	-156.7	606.7	-152.67
4.70	15.81	961.8	959.0	955.2	10.27	9.75	9.50	26.47	-21.7	-25.3	-58.0	0.37	2.97	-88.7	-115.0	-136.3	-156.0	851.6	-155.52
5.00	15.42	966.6	963.7	960.0	10.18	9.68	9.45	26.47	-21.7	-25.1	-52.8	0.38	3.19	-87.7	-115.3	-136.3	-155.0	1000.0	-156.25

*at 25°C unless mentioned otherwise



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