

Coaxial

Voltage Controlled Oscillator

ZX95-3100C+

Linear Tuning 2875 to 3100 MHz

Features

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

Applications

- r & d
- lab
- instrumentation
- wireless communications
- point-to-point
- military



CASE STYLE: GB956

Connectors	Model	Price	Qty.
SMA	ZX95-3100C-S+	\$40.95 ea.	(1-9)

+RoHS Compliant

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

Electrical Specifications

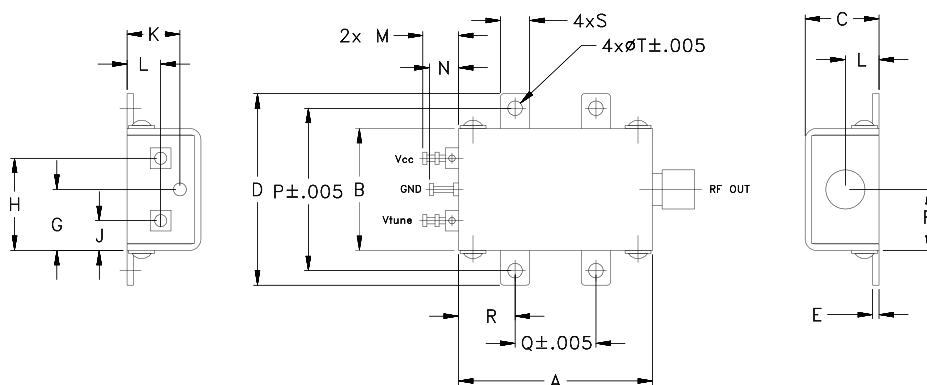
MODEL NO.	FREQ. (MHz)		POWER OUTPUT (dBm)	PHASE NOISE dBc/Hz SSB at offset frequencies,kHz				TUNING					NON HARMONIC SPURIOUS (dBc)	HARMONICS (dBc)		PULLING pk-pk @12 dBr (MHz)	PUSHING (MHz/V)	DC OPERATING POWER	
								VOLTAGE RANGE (V)	SENSI- TIVITY (MHz/V)	PORT CAP (pF)	3 dB MODULATION BANDWIDTH (MHz)								
	Min.	Max.		Typ.	1	10	100	1000	Min.	Max.	Typ.	Typ.	Typ.	Typ.	Typ.	Max.	Typ.	Typ.	Vcc (volts)
ZX95-3100C+	2875	3100	+1.2	-78	-105	-126	-146	0.5	11	29-37	17	100	-90	-35	-20	0.6	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)	8.5V
Absolute Max. Tuning Voltage (Vtune)	13.0V
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



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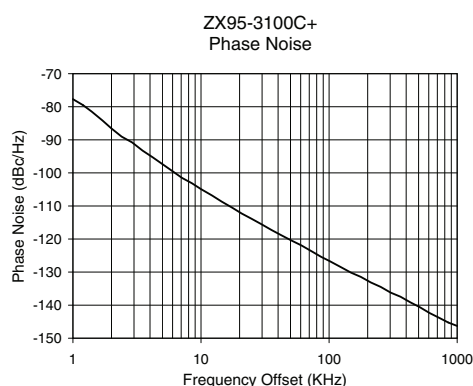
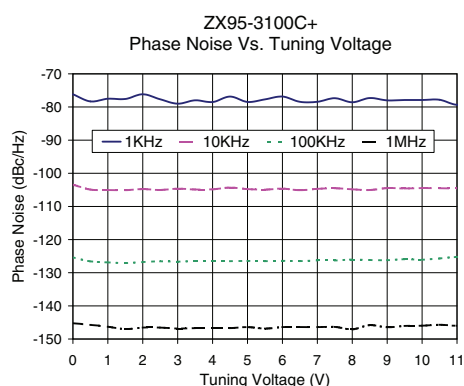
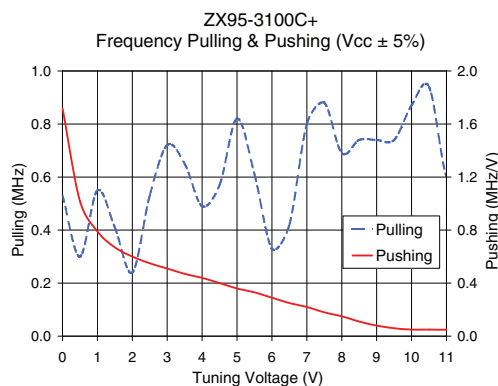
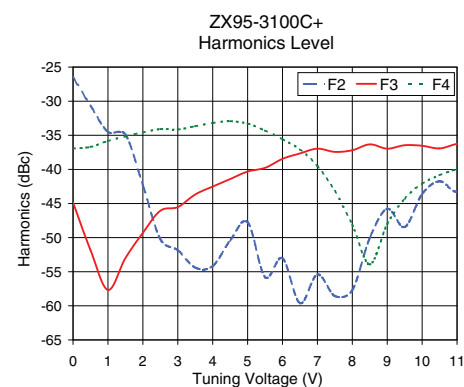
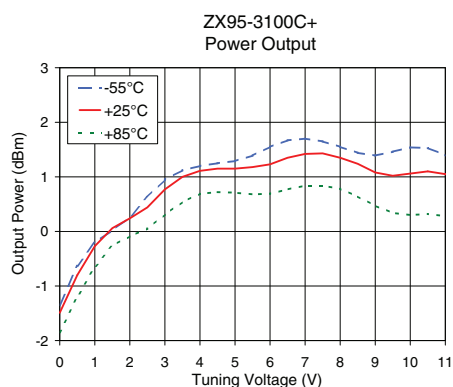
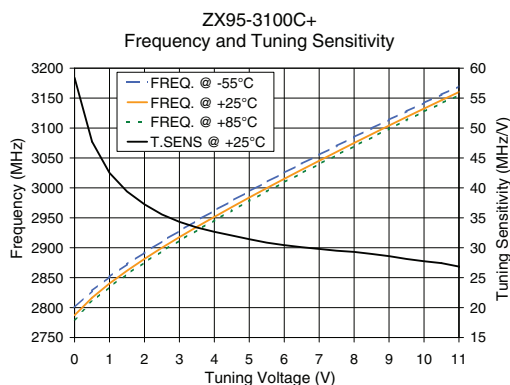
REV. OR
M119741
EDR-8896F2
ZX95-3100C+
RAV
120905
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Performance Data & Curves*

ZX95-3100C+

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 2988 MHz (dBc/Hz)
		-55°C	+25°C	+85°C	-55°C	+25°C	+85°C		F2	F3	F4			1kHz	10kHz	100kHz	1MHz		
0.00	58.40	2800.1	2787.3	2780.2	-1.35	-1.49	-1.85	31.17	-26.5	-44.9	-36.9	1.72	0.53	-76.2	-103.4	-125.4	-145.2	1.0	-77.71
0.50	47.73	2828.1	2816.5	2810.3	-0.63	-0.80	-1.20	31.20	-30.7	-51.8	-36.7	1.02	0.30	-78.3	-104.9	-126.6	-145.7	2.0	-86.58
1.00	42.51	2851.5	2840.4	2834.4	-0.20	-0.27	-0.65	31.20	-34.5	-57.7	-35.8	0.79	0.55	-77.5	-105.1	-126.9	-146.3	3.5	-93.27
1.50	39.41	2872.5	2861.6	2855.8	0.02	0.06	-0.26	31.19	-34.9	-53.0	-35.2	0.67	0.41	-77.6	-105.1	-127.1	-147.0	6.0	-99.51
2.00	37.25	2892.1	2881.3	2875.5	0.26	0.24	-0.09	31.17	-42.3	-49.3	-34.6	0.60	0.24	-76.2	-104.8	-126.8	-146.6	8.5	-103.15
2.50	35.57	2910.5	2899.9	2894.1	0.63	0.44	0.05	31.15	-50.2	-46.1	-34.1	0.55	0.53	-77.7	-105.0	-126.5	-146.6	10.0	-104.90
3.00	34.33	2928.2	2917.7	2911.9	0.95	0.77	0.31	31.13	-51.9	-45.5	-34.2	0.51	0.72	-79.0	-104.7	-126.7	-146.8	20.8	-112.31
4.00	32.66	2962.0	2951.6	2945.8	1.20	1.11	0.69	31.08	-54.2	-42.5	-33.2	0.44	0.49	-78.5	-104.8	-126.6	-146.7	35.5	-117.27
4.50	32.05	2978.3	2967.9	2962.1	1.25	1.15	0.72	31.06	-50.4	-41.4	-32.9	0.40	0.57	-76.9	-104.3	-126.5	-146.7	60.7	-121.92
5.00	31.43	2994.2	2983.9	2978.1	1.29	1.15	0.71	31.04	-47.8	-40.3	-33.3	0.36	0.82	-78.5	-104.8	-126.4	-146.4	86.7	-125.39
5.50	30.86	3009.8	2999.7	2993.9	1.39	1.18	0.68	31.02	-55.8	-39.8	-34.3	0.33	0.61	-77.7	-104.9	-126.5	-146.9	100.0	-126.60
6.00	30.44	3025.2	3015.1	3009.4	1.55	1.23	0.69	31.00	-53.0	-38.5	-35.6	0.29	0.33	-76.9	-104.6	-126.4	-146.4	148.1	-130.16
6.50	30.09	3040.3	3030.3	3024.7	1.67	1.35	0.77	30.99	-59.6	-37.7	-37.1	0.25	0.42	-78.4	-105.1	-126.5	-146.4	177.0	-131.47
7.00	29.80	3055.3	3045.3	3039.7	1.70	1.42	0.84	30.98	-55.4	-37.0	-39.5	0.22	0.80	-78.4	-104.7	-126.3	-146.4	211.6	-133.14
7.50	29.50	3070.1	3060.2	3054.7	1.65	1.43	0.84	30.97	-58.6	-37.4	-43.2	0.18	0.88	-77.3	-104.5	-126.3	-146.3	302.4	-136.21
8.00	29.31	3084.9	3075.0	3069.5	1.55	1.35	0.78	30.96	-57.7	-37.2	-48.2	0.15	0.69	-78.6	-104.9	-126.0	-147.1	361.5	-137.46
8.50	28.97	3099.4	3089.7	3084.2	1.44	1.24	0.64	30.95	-50.1	-36.3	-53.9	0.11	0.74	-77.3	-105.1	-126.2	-145.8	507.5	-140.56
9.00	28.60	3113.7	3104.1	3098.8	1.39	1.08	0.47	30.95	-45.8	-37.0	-48.0	0.08	0.74	-78.0	-104.5	-126.2	-146.5	606.7	-142.34
10.00	27.74	3141.9	3132.5	3127.3	1.54	1.06	0.30	30.94	-43.6	-36.5	-42.1	0.05	0.87	-77.9	-104.5	-126.1	-146.0	851.6	-145.25
11.00	26.86	3169.4	3160.1	3155.0	1.40	1.05	0.28	30.93	-43.3	-36.3	-40.0	0.05	0.60	-79.3	-104.6	-125.3	-146.0	1000.0	-146.28

*at 25°C unless mentioned otherwise



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