

Coaxial

Voltage Controlled Oscillator

ZX95-3250+

Linear Tuning 2550 to 3250 MHz

Features

- low phase noise
- low pulling
- protected by US patent 6,790,049

Applications

- r & d
- lab
- instrumentation
- wireless communication
- point-to-point radio



CASE STYLE: GB956

Connectors	Model
SMA	ZX95-3250-S+

+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)	SENSI- TIVITY (MHz/V)	PORT CAP (pF)	3 dB MODULATION BANDWIDTH (MHz)		Typ.	Typ.			Max.	Typ.
ZX95-3250+	2550	3250	+3	-73	-98	-119	-139	0.5	24	22-44	40	160	-90	-20	-12	0.6	3	5	42

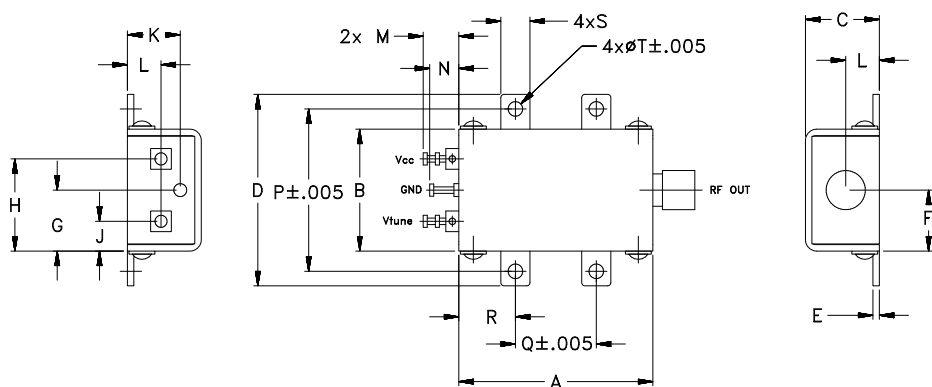
Maximum Ratings

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)	26V
All specifications	50 ohm system

Permanent damage may occur if any of these limits are exceeded.

NOTE: When soldering the DC connections, caution must be used to avoid overheating the DC terminals. See Application Note [AN-40-10](#).

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

Notes

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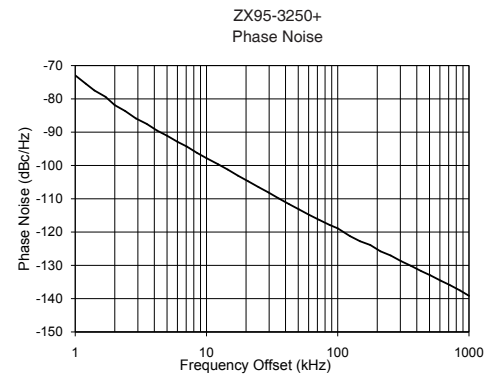
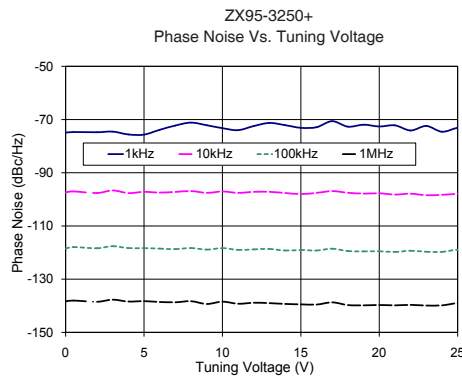
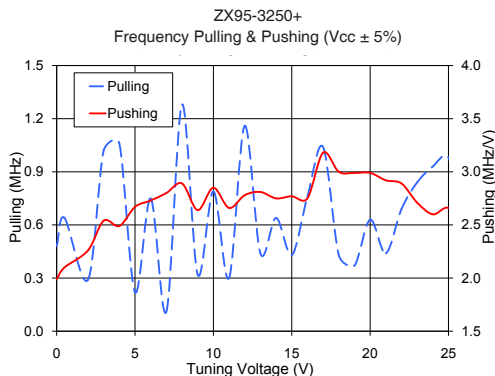
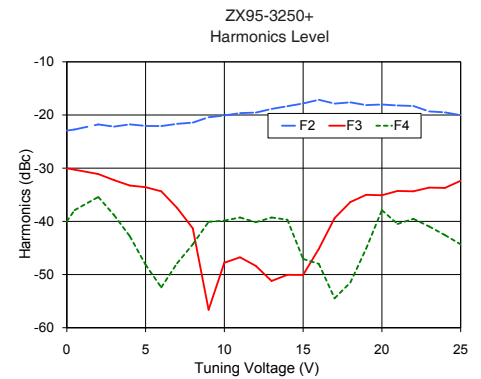
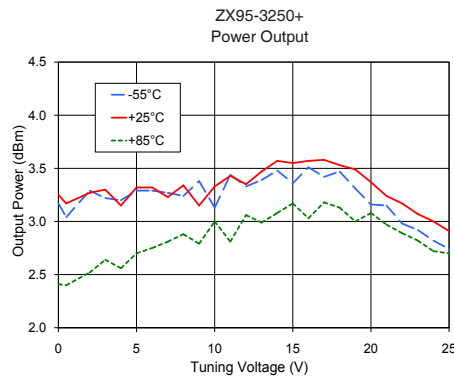
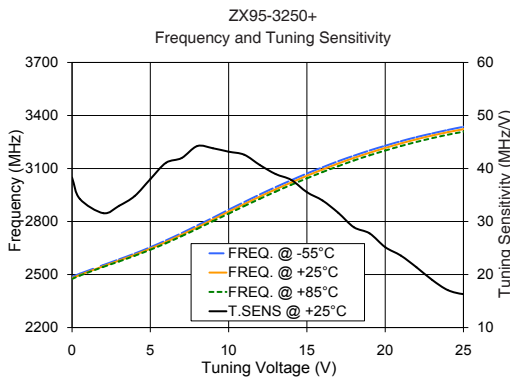
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Page 1 of 2

Performance Data & Curves*

ZX95-3250+

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 2900 MHz (dBc/Hz)
		-55°C	+25°C	+85°C	-55°C	+25°C	+85°C		F2	F3	F4			1kHz	10kHz	100kHz	1MHz		
0.00	38.29	2486.5	2478.4	2474.6	3.17	3.25	2.41	34.99	-22.9	-30.0	-40.0	1.99	0.48	-74.92	-97.3	-118.5	-138.3	1.0	-72.95
0.50	34.26	2504.7	2497.5	2494.0	3.04	3.17	2.40	35.01	-22.7	-30.3	-37.9	2.10	0.64	-74.70	-97.0	-117.9	-138.0	2.0	-81.89
2.00	31.57	2553.4	2546.9	2543.2	3.29	3.27	2.52	35.17	-21.8	-31.1	-35.4	2.26	0.29	-74.76	-97.6	-118.4	-138.5	3.5	-87.52
3.00	32.95	2585.8	2578.5	2573.8	3.22	3.30	2.64	35.13	-22.2	-32.3	-38.8	2.54	1.02	-74.54	-96.6	-117.6	-137.7	6.0	-92.87
4.00	34.79	2618.7	2611.4	2606.1	3.20	3.15	2.56	35.25	-21.8	-33.3	-42.8	2.49	1.06	-75.60	-97.6	-118.3	-138.4	8.5	-96.28
6.00	41.07	2693.2	2684.2	2677.0	3.29	3.32	2.75	35.38	-22.1	-34.4	-52.4	2.73	0.75	-73.87	-97.4	-118.5	-138.6	10.0	-97.81
8.00	44.23	2777.9	2767.3	2758.4	3.24	3.34	2.88	35.54	-21.4	-41.3	-44.3	2.89	1.28	-71.15	-96.9	-118.3	-138.3	20.8	-104.77
9.00	43.81	2821.4	2811.5	2801.8	3.38	3.15	2.79	35.70	-20.4	-56.6	-40.1	2.64	0.32	-72.13	-97.5	-118.9	-139.3	35.5	-109.89
10.00	43.16	2866.8	2855.3	2844.1	3.13	3.33	3.00	35.69	-20.1	-47.8	-39.9	2.85	0.79	-73.25	-97.0	-118.3	-138.5	60.7	-114.87
12.00	40.64	2953.1	2941.0	2928.5	3.33	3.35	3.06	35.89	-19.5	-48.4	-40.2	2.78	1.16	-72.43	-97.2	-118.8	-138.9	86.7	-117.86
13.00	38.94	2994.4	2981.7	2968.8	3.39	3.47	2.99	35.96	-18.9	-51.2	-39.3	2.81	0.44	-71.27	-97.2	-118.6	-139.0	100.0	-118.89
14.00	37.85	3033.3	3020.6	3007.4	3.48	3.57	3.08	36.01	-18.4	-50.1	-39.7	2.75	0.64	-72.10	-97.6	-119.2	-139.3	148.1	-122.76
15.00	35.53	3071.5	3058.5	3044.2	3.36	3.55	3.17	35.99	-17.8	-50.1	-47.1	2.77	0.43	-73.11	-98.0	-119.0	-139.5	177.0	-123.89
16.00	33.95	3106.7	3094.0	3079.9	3.51	3.57	3.03	36.00	-17.1	-45.2	-48.0	2.75	0.76	-72.88	-97.6	-119.2	-139.5	211.6	-125.78
18.00	28.92	3172.3	3159.6	3145.1	3.47	3.53	3.13	35.95	-17.6	-36.4	-51.5	3.00	0.43	-72.67	-97.5	-119.4	-139.7	302.4	-128.69
19.00	27.77	3201.6	3188.5	3174.4	3.31	3.49	3.00	35.88	-18.1	-35.0	-45.1	2.99	0.37	-71.94	-97.8	-119.6	-139.8	361.5	-130.15
20.00	25.16	3228.7	3216.3	3201.4	3.16	3.37	3.08	35.81	-18.0	-35.1	-37.9	2.99	0.63	-72.60	-97.7	-119.5	-139.7	507.5	-132.98
21.00	23.56	3254.0	3241.4	3227.0	3.15	3.24	2.97	35.72	-18.2	-34.3	-40.5	2.92	0.44	-72.18	-98.2	-119.8	-139.8	606.7	-134.56
22.00	21.36	3277.4	3265.0	3250.3	2.98	3.17	2.89	35.63	-18.3	-34.4	-39.5	2.89	0.69	-74.11	-97.9	-119.3	-139.7	851.6	-137.49
24.00	17.06	3317.8	3305.3	3291.2	2.82	3.00	2.72	35.46	-19.5	-33.7	-42.6	2.60	0.93	-74.57	-98.3	-119.8	-139.8	1000.0	-139.15

*at 25°C unless mentioned otherwise



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