

Coaxial

# Voltage Controlled Oscillator

## ZX95-3250A+

Linear Tuning 3000 to 3250 MHz

### Features

- Linear tuning characteristics
- Low phase noise
- Low pushing
- Low pulling
- Protected by US patent 6,790,049



CASE STYLE: GB956

### Applications

- R&D
- LAB
- Instrumentation
- Wireless communications
- Radio link

Connectors	Model	Price	Qty.
SMA	ZX95-3250A-S+	\$40.95 ea.	(1-9)

**+ RoHS compliant in accordance with EU Directive (2002/95/EC)**

The +Suffix has been added in order to identify RoHS Compliance. See our web site for RoHS Compliance methodologies and qualifications.

### Electrical Specifications

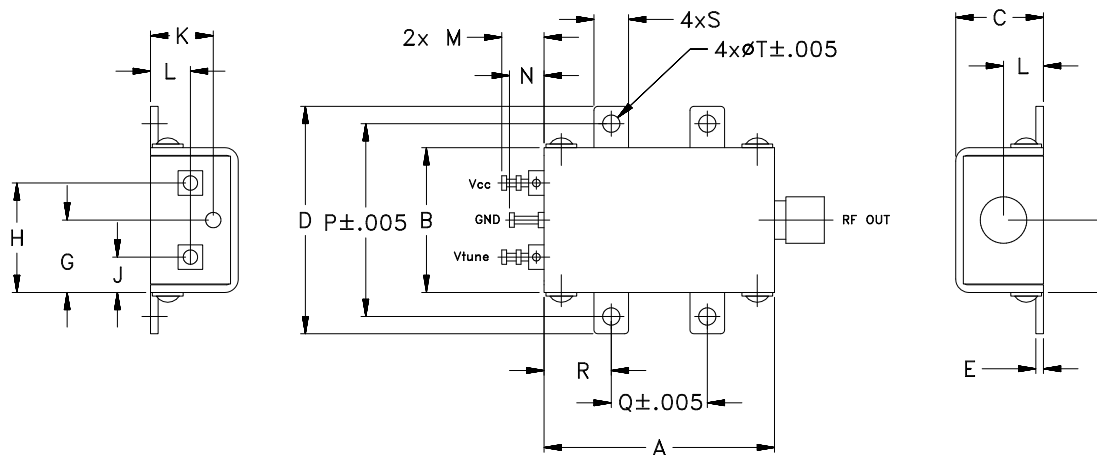
MODEL NO.	FREQ. (MHz)		POWER OUTPUT (dBm)	PHASE NOISE dBc/Hz SSB at offset frequencies, kHz				TUNING					NON HARMONIC SPURIOUS (dBc)	HARMONICS (dBc)		PULLING pk-pk @ 12 dB (MHz)	PUSHING (MHz/V)	DC OPERATING POWER	
	Min.	Max.		Typ.	1	10	100	1000	VOLTAGE RANGE (V)	SENSI-TIVITY (MHz/V)	PORT CAP (pF)	3 dB MODULATION BANDWIDTH (MHz)		Typ.	Typ.			Max.	Typ.
ZX95-3250A+	3000	3250	+6.5	-73	-98	-119	-139	1	10	35	20	80	-90	-30	-20	1.5	2.5	5	40

### 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)	12V
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	.45	.57	.18	.33	.21	.22	.18	1.00	.50	.35	.18	.106	GRAM
30.48	19.05	11.68	29.97	1.02	9.65	11.43	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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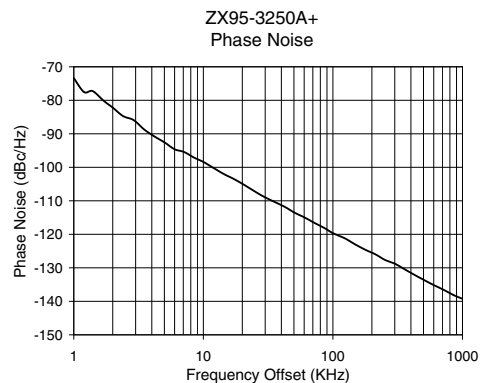
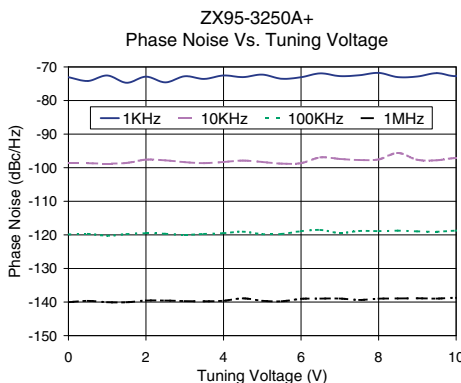
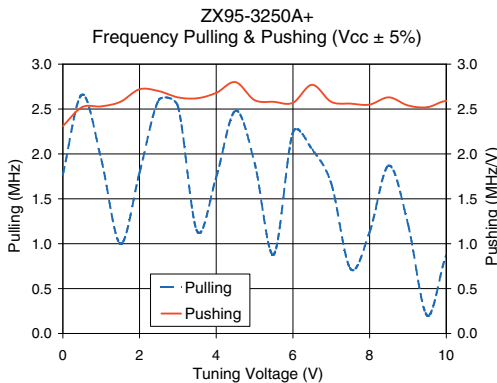
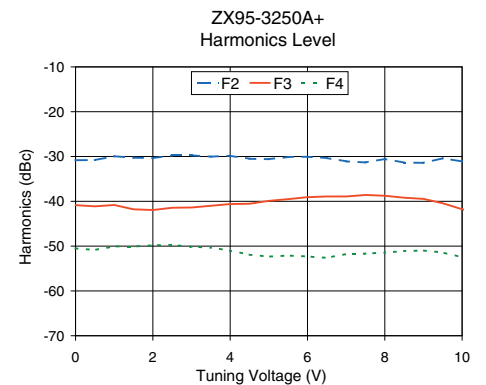
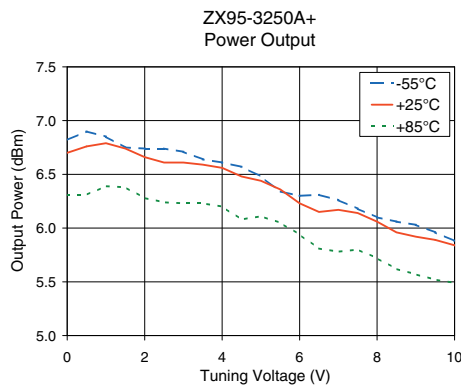
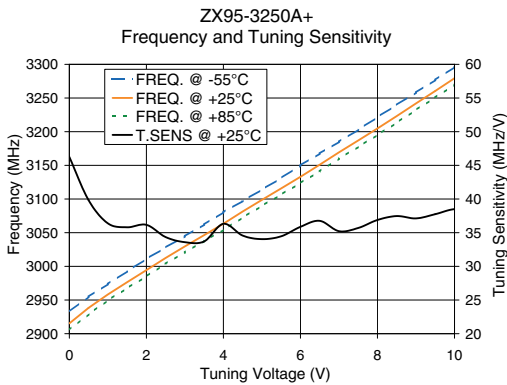
REV. OR  
M115158  
EDR-8870F2  
ZX95-3250A+  
RAV  
090903  
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# Performance Data & Curves\*

# ZX95-3250A+

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 3125 MHz (dBc/Hz)
		-55°C	+25°C	+85°C	-55°C	+25°C	+85°C		F2	F3	F4			1kHz	10kHz	100kHz	1MHz		
0.00	46.26	2932.7	2915.2	2905.6	6.82	6.70	6.31	34.39	-30.8	-40.9	-50.5	2.31	1.77	-73.1	-98.7	-119.9	-140.1	1.0	-73.38
1.00	36.39	2973.8	2958.3	2949.5	6.85	6.79	6.39	34.41	-29.9	-40.8	-50.1	2.53	1.94	-72.6	-98.8	-120.3	-140.0	2.0	-82.20
1.50	35.81	2992.7	2976.5	2967.6	6.75	6.74	6.38	34.40	-30.3	-41.8	-50.1	2.58	1.00	-74.7	-98.6	-119.8	-140.1	3.5	-88.74
2.00	36.17	3011.1	2994.4	2985.1	6.74	6.66	6.28	34.36	-30.4	-41.9	-49.8	2.72	1.79	-72.9	-97.6	-119.5	-139.6	6.0	-94.61
2.50	34.35	3028.1	3012.5	3003.8	6.74	6.61	6.24	34.37	-29.7	-41.4	-49.7	2.70	2.60	-74.6	-97.8	-119.7	-139.6	8.5	-97.13
3.00	33.59	3044.7	3029.6	3020.8	6.71	6.61	6.23	34.39	-29.7	-41.4	-50.2	2.63	2.53	-72.8	-98.4	-120.0	-139.7	10.0	-98.38
3.50	33.70	3062.1	3046.4	3037.5	6.64	6.59	6.23	34.38	-30.0	-41.0	-50.3	2.62	1.14	-73.6	-98.6	-119.7	-139.8	20.8	-105.32
4.00	36.31	3080.4	3063.3	3054.2	6.61	6.56	6.20	34.33	-29.8	-40.6	-51.0	2.68	1.74	-72.6	-98.3	-119.5	-139.6	35.5	-110.36
4.50	34.57	3097.2	3081.4	3072.6	6.57	6.48	6.08	34.30	-30.5	-40.5	-51.9	2.80	2.48	-73.0	-97.9	-119.1	-138.9	60.7	-115.01
5.00	34.04	3114.0	3098.7	3089.9	6.48	6.44	6.11	34.33	-30.6	-39.9	-52.3	2.60	1.90	-72.3	-98.3	-119.8	-139.6	86.7	-118.20
5.50	34.46	3131.1	3115.8	3106.7	6.34	6.36	6.05	34.32	-30.1	-39.5	-52.1	2.58	0.88	-73.5	-98.8	-119.7	-139.8	100.0	-119.64
6.00	35.88	3150.0	3133.0	3123.8	6.30	6.23	5.94	34.29	-30.1	-39.1	-52.3	2.57	2.24	-73.1	-98.6	-118.9	-139.0	148.1	-122.98
6.50	36.76	3167.6	3150.9	3141.2	6.31	6.15	5.81	34.25	-30.3	-38.9	-52.6	2.77	2.05	-71.9	-96.9	-118.5	-139.0	177.0	-124.58
7.00	35.22	3185.1	3169.3	3160.0	6.26	6.17	5.78	34.27	-31.1	-38.9	-51.8	2.58	1.67	-72.7	-97.4	-119.4	-139.0	211.6	-125.91
7.50	35.70	3202.9	3186.9	3177.5	6.18	6.14	5.80	34.27	-31.3	-38.6	-51.7	2.56	0.72	-72.5	-97.7	-118.8	-139.4	302.4	-128.81
8.00	36.89	3221.6	3204.8	3195.2	6.10	6.06	5.72	34.25	-30.6	-38.8	-51.5	2.55	1.13	-71.8	-97.5	-118.9	-139.0	361.5	-130.53
8.50	37.47	3239.9	3223.2	3213.4	6.06	5.96	5.62	34.23	-31.4	-39.2	-51.1	2.63	1.87	-73.0	-95.6	-118.8	-138.9	507.5	-133.69
9.00	37.12	3258.2	3241.9	3232.3	6.03	5.92	5.57	34.24	-31.4	-39.5	-51.0	2.54	1.22	-72.8	-97.7	-119.0	-138.9	606.7	-135.25
9.50	37.75	3276.9	3260.5	3250.8	5.96	5.89	5.52	34.25	-30.4	-40.4	-51.4	2.52	0.20	-71.8	-97.8	-119.1	-139.0	851.6	-138.11
10.00	38.49	3296.0	3279.4	3269.5	5.88	5.84	5.49	34.23	-31.1	-41.8	-52.5	2.59	0.87	-72.7	-97.1	-118.8	-138.7	1000.0	-139.26

\*at 25°C unless mentioned otherwise



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