

Coaxial

Voltage Controlled Oscillator

ZX95-530+

5V Tuning for PLL IC's 500 to 530 MHz

Features

- linear tuning characteristics
- low phase noise
- low pushing
- low pulling
- 0.5-5V tuning voltage range
- protected by US patent 6,790,049

Applications

- r & d
- lab
- instrumentation
- PLL circuitry
- wireless microphones



CASE STYLE: GB956

Connectors	Model	Price	Qty.
SMA	ZX95-530-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

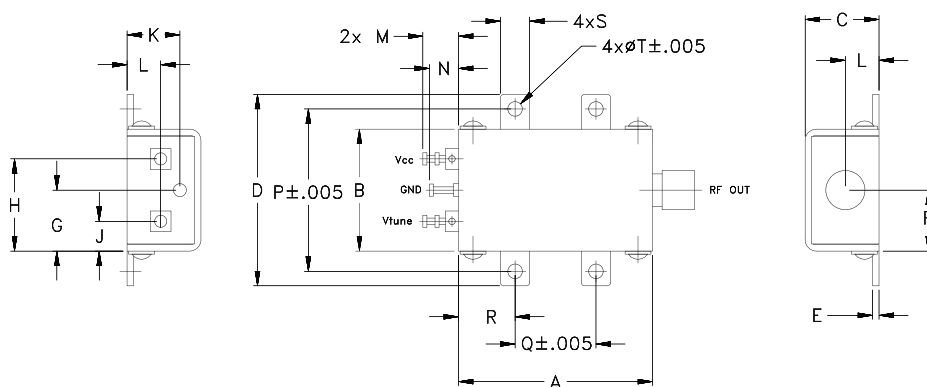
MODEL NO.	FREQ. (MHz)		POWER OUTPUT (dBm)	PHASE NOISE dBc/Hz SSB at offset frequencies,KHz Typ.				TUNING					NON HARMONIC SPURIOUS (dBc)	HARMONICS (dBc)		PULLING pk-pk @ 12 dBr (MHz)	PUSHING (MHz/V)	DC OPERATING POWER Vcc Current (volts) (mA)	
								VOLTAGE RANGE (V)	SENSI- TIVITY (MHz/V)	PORT CAP (pF)	3 dB MODULATION BANDWIDTH (MHz)								
	Min.	Max.		Typ.	1	10	100	1000	Min.	Max.	Typ.	Typ.	Typ.	Typ.	Typ.	Max.	Typ.	Typ.	Max.
ZX95-530+	500	530	-0.5	-90	-111	-132	-151	0.5	5	10 - 11	70	80	-90	-23	-15	0.4	0.1	5	15

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)	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

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 IF/RF MICROWAVE COMPONENTS

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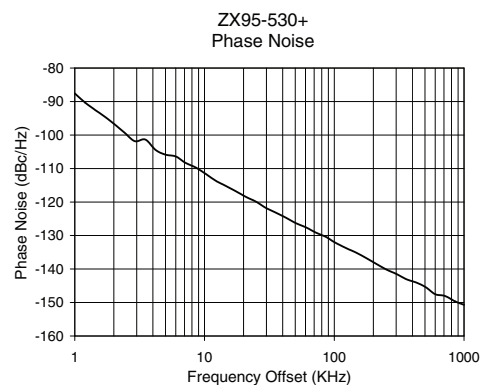
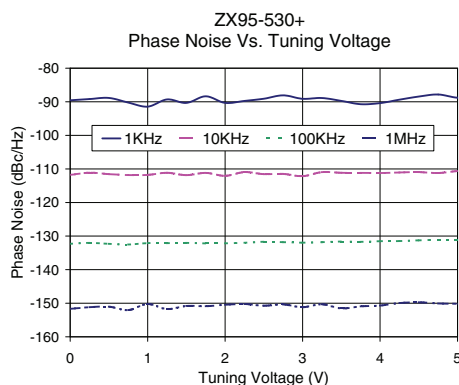
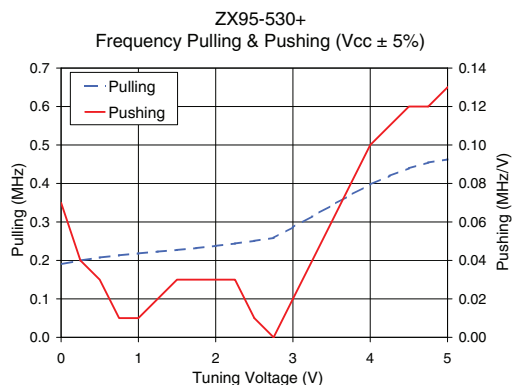
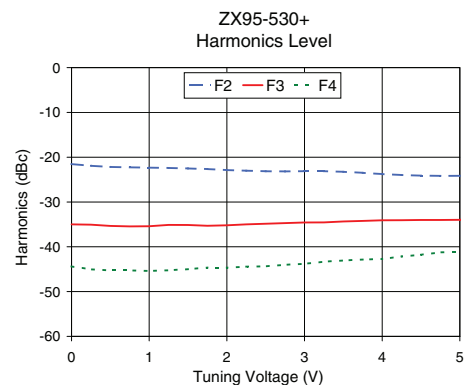
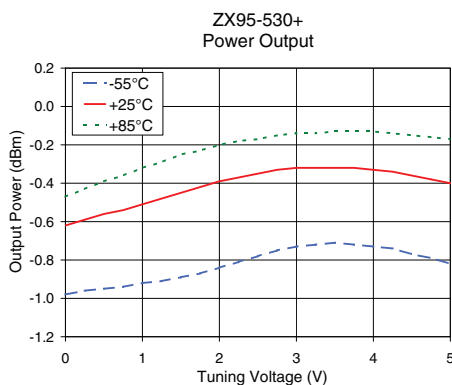
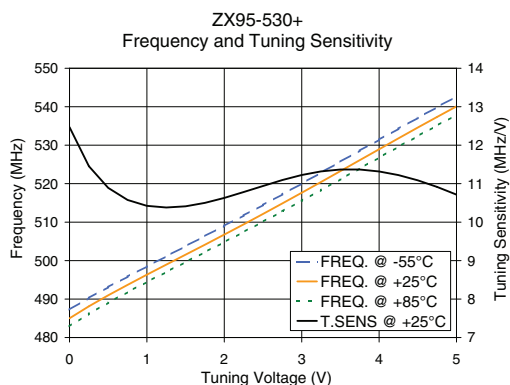
REV. OR
 M108877
 EDR-7747/7
 ZX95-530+
 RAV
 120830
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Performance Data & Curves*

ZX95-530+

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 512 MHz (dBc/Hz)
		-55°C	+25°C	+85°C	-55°C	+25°C	+85°C		F2	F3	F4			1kHz	10kHz	100kHz	1MHz		
0.00	12.47	487.3	485.0	482.9	-0.98	-0.62	-0.47	10.05	-21.5	-35.0	-44.4	0.07	0.19	-89.6	-111.8	-132.3	-151.7	1.0	-87.58
0.50	10.89	493.1	491.0	489.1	-0.95	-0.56	-0.39	10.06	-22.2	-35.4	-45.3	0.03	0.21	-88.9	-111.5	-132.3	-151.0	2.0	-96.63
0.75	10.58	495.8	493.7	491.8	-0.94	-0.54	-0.36	10.07	-22.3	-35.5	-45.3	0.01	0.21	-90.2	-111.8	-132.5	-152.1	3.5	-101.36
1.00	10.42	498.5	496.3	494.5	-0.92	-0.51	-0.32	10.07	-22.3	-35.4	-45.4	0.01	0.22	-91.5	-111.8	-132.1	-150.2	6.0	-106.39
1.25	10.38	501.1	498.9	497.0	-0.91	-0.48	-0.29	10.08	-22.4	-35.1	-45.2	0.02	0.22	-89.3	-111.2	-132.1	-151.7	8.5	-109.63
1.50	10.41	503.7	501.5	499.6	-0.89	-0.45	-0.25	10.08	-22.5	-35.1	-45.0	0.03	0.23	-90.3	-111.8	-132.0	-150.8	10.0	-111.36
1.75	10.50	506.4	504.1	502.2	-0.87	-0.42	-0.23	10.08	-22.7	-35.3	-44.6	0.03	0.23	-88.4	-111.2	-132.2	-150.9	20.8	-118.46
2.00	10.63	509.0	506.8	504.8	-0.84	-0.39	-0.20	10.09	-22.9	-35.2	-44.7	0.03	0.24	-90.3	-112.1	-132.2	-150.5	35.5	-123.18
2.25	10.78	511.7	509.4	507.4	-0.81	-0.37	-0.18	10.09	-23.0	-35.0	-44.4	0.03	0.24	-89.8	-110.9	-132.0	-150.2	60.7	-127.58
2.50	10.94	514.5	512.1	510.1	-0.78	-0.35	-0.17	10.09	-23.1	-34.9	-44.4	0.01	0.25	-89.1	-111.5	-131.7	-150.8	86.7	-130.46
2.75	11.09	517.2	514.9	512.8	-0.75	-0.33	-0.15	10.10	-23.2	-34.7	-44.0	0.00	0.26	-88.1	-111.5	-131.8	-150.4	100.0	-131.97
3.00	11.23	520.0	517.6	515.6	-0.73	-0.32	-0.14	10.10	-23.1	-34.6	-43.8	0.02	0.29	-89.1	-112.2	-132.0	-151.2	148.1	-135.15
3.25	11.32	522.9	520.4	518.3	-0.72	-0.32	-0.14	10.10	-23.1	-34.6	-43.3	0.04	0.32	-88.9	-111.0	-131.8	-150.3	177.0	-136.77
3.50	11.37	525.7	523.3	521.1	-0.71	-0.32	-0.13	10.10	-23.3	-34.4	-43.1	0.06	0.34	-89.8	-111.1	-131.6	-151.5	211.6	-138.50
3.75	11.37	528.6	526.1	524.0	-0.72	-0.32	-0.13	10.10	-23.5	-34.2	-42.8	0.08	0.37	-90.7	-111.2	-131.7	-150.9	302.4	-141.52
4.00	11.32	531.4	529.0	526.8	-0.73	-0.33	-0.13	10.10	-23.8	-34.1	-42.7	0.10	0.40	-90.4	-111.2	-131.5	-150.7	361.5	-143.10
4.25	11.22	534.3	531.8	529.6	-0.74	-0.34	-0.14	10.10	-24.0	-34.1	-42.2	0.11	0.42	-89.4	-111.1	-131.5	-150.0	507.5	-145.45
4.50	11.09	537.1	534.6	532.4	-0.77	-0.36	-0.15	10.09	-24.1	-34.0	-41.8	0.12	0.44	-88.4	-111.0	-131.3	-149.7	600.0	-147.52
4.75	10.91	539.9	537.4	535.1	-0.79	-0.38	-0.16	10.09	-24.2	-34.0	-41.2	0.12	0.45	-87.8	-111.2	-131.1	-150.1	851.6	-149.64
5.00	10.72	542.7	540.1	537.8	-0.82	-0.40	-0.17	10.10	-24.2	-34.0	-41.2	0.13	0.46	-88.8	-110.6	-131.1	-150.2	1000.0	-150.69

*at 25°C unless mentioned otherwise



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