

Coaxial

Voltage Controlled Oscillator

ZX95-750W+

Wide Band 530 to 750 MHz

Features

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



CASE STYLE: GB956

Connectors	Model
SMA	ZX95-750W-S+

Applications

- r & d
- lab
- instrumentation
- wireless communications
- radio

+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)		PORT SENSITIVITY (MHz/V)	CAP (pF)		3 dB MODULATION BANDWIDTH (MHz)	Typ.			Typ.	Max.	Typ.	Vcc (volts)	Current (mA)
	Min.	Max.							Min.	Max.												
ROS-750W+	530	750	+7.2	-75	-101	-122	-143	0.5	5	60-76	90	30	-90	-17	-10	0.1	1.1	12	50			

Maximum Ratings

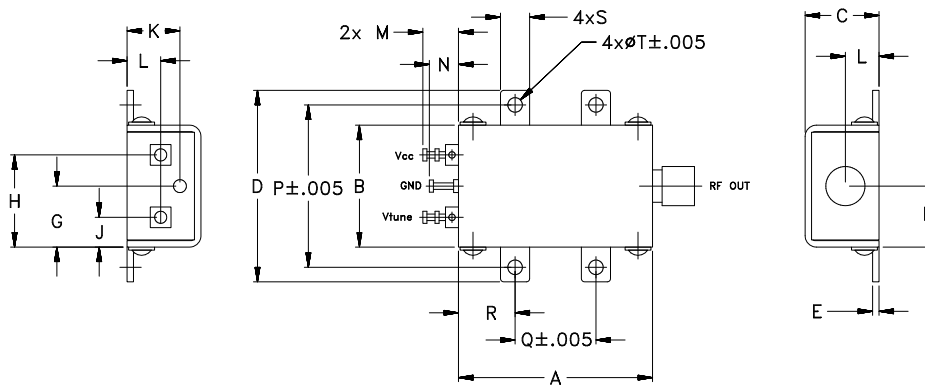
Operating Temperature	-55°C to 85°C
Storage Temperature	-55°C to 100°C
Absolute Max. Supply Voltage (Vcc)	13V
Absolute Max. Tuning Voltage (Vtune)	7V
All specifications	50 ohm system

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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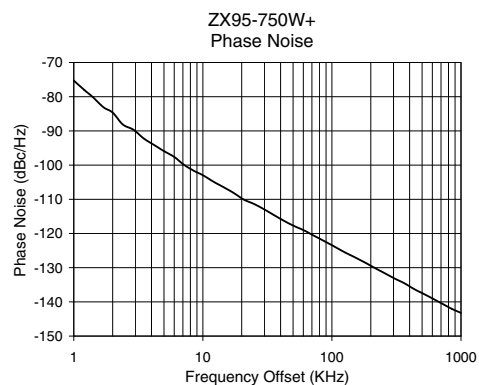
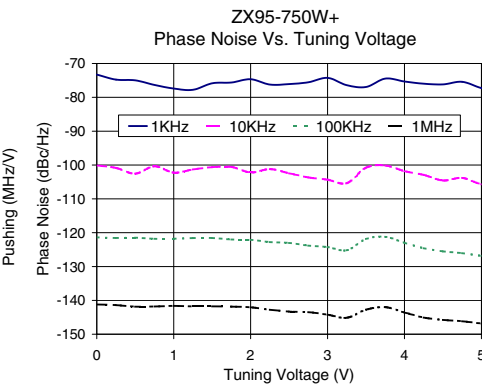
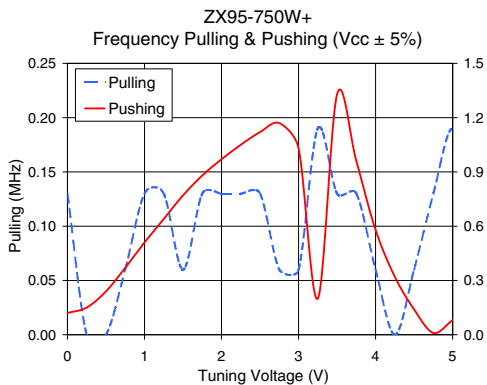
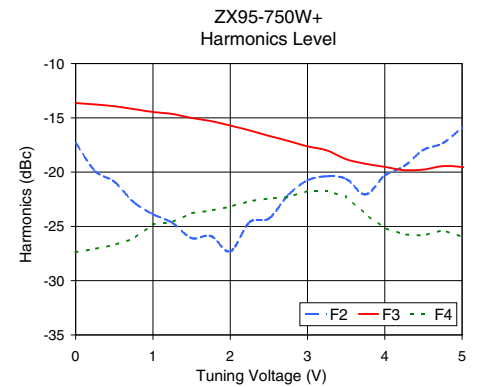
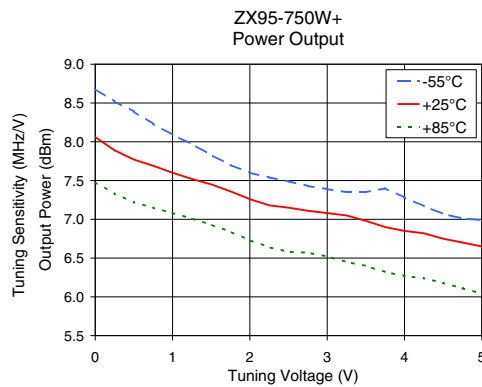
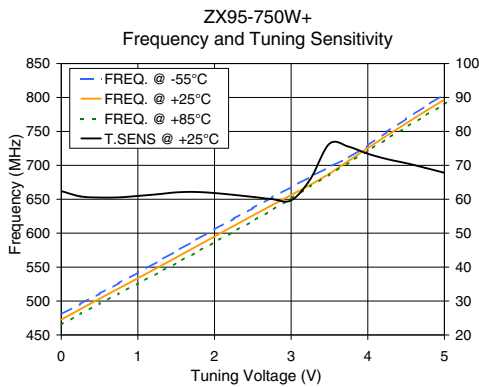
REV. A
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ZX95-750W+
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Performance Data & Curves*

ZX95-750W+

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 640 MHz (dBc/Hz)
		-55°C	+25°C	+85°C	-55°C	+25°C	+85°C		F2	F3	F4			1kHz	10kHz	100kHz	1MHz		
0.00	62.41	480.4	472.5	465.1	8.68	8.06	7.48	41.05	-17.3	-13.6	-27.4	0.12	0.13	-73.3	-100.1	-121.4	-141.2	1.0	-75.28
0.50	60.50	510.9	503.3	496.1	8.39	7.77	7.22	41.28	-20.9	-13.9	-26.7	0.24	0.00	-75.0	-102.6	-121.5	-141.9	2.0	-84.63
0.75	60.56	526.2	518.4	511.0	8.23	7.69	7.15	41.37	-22.8	-14.2	-26.1	0.37	0.06	-76.3	-100.4	-121.8	-141.8	3.5	-92.26
1.00	60.97	541.9	533.6	525.9	8.09	7.60	7.08	41.44	-23.9	-14.5	-24.8	0.51	0.13	-77.4	-102.2	-121.8	-141.6	6.0	-97.62
1.25	61.46	557.7	548.8	540.8	7.97	7.52	7.01	41.49	-24.7	-14.6	-24.6	0.64	0.13	-77.8	-101.3	-121.6	-141.8	8.5	-101.66
1.50	62.03	573.6	564.2	555.9	7.83	7.45	6.93	41.54	-26.1	-15.0	-23.8	0.77	0.06	-75.9	-100.6	-121.6	-141.8	10.0	-102.95
1.75	62.14	589.6	579.7	571.2	7.70	7.36	6.84	41.59	-25.9	-15.3	-23.6	0.88	0.13	-75.6	-100.6	-122.0	-141.9	20.8	-110.11
2.00	61.82	605.6	595.2	586.7	7.60	7.26	6.73	41.64	-27.3	-15.7	-23.2	0.97	0.13	-74.7	-102.2	-122.1	-142.0	35.5	-114.60
2.25	61.30	621.4	610.7	602.2	7.54	7.18	6.64	41.69	-24.6	-16.2	-22.7	1.05	0.13	-76.2	-101.2	-122.8	-142.8	60.7	-119.08
2.50	60.68	637.0	626.0	617.9	7.49	7.15	6.58	41.74	-24.3	-16.7	-22.4	1.12	0.13	-76.1	-102.4	-123.0	-143.3	86.7	-122.19
2.75	60.05	652.6	641.2	634.0	7.43	7.11	6.57	41.78	-22.1	-17.1	-22.3	1.17	0.06	-75.6	-103.7	-123.8	-143.5	100.0	-123.42
3.00	59.67	668.0	656.2	651.2	7.39	7.08	6.52	41.83	-20.8	-17.6	-21.7	1.03	0.06	-74.3	-104.3	-124.3	-144.2	148.1	-126.81
3.25	65.90	683.0	671.1	668.8	7.35	7.05	6.45	41.86	-20.4	-18.0	-21.7	0.20	0.19	-76.4	-105.4	-125.2	-145.1	177.0	-128.33
3.50	76.35	697.5	687.6	686.4	7.35	6.98	6.40	41.80	-20.6	-18.8	-22.3	1.33	0.13	-76.9	-100.8	-121.9	-142.8	211.6	-129.94
3.75	75.50	711.3	706.7	704.0	7.40	6.90	6.32	41.66	-22.1	-19.2	-23.9	0.96	0.13	-74.5	-100.2	-121.2	-142.0	302.4	-133.08
4.00	73.42	729.3	725.5	721.5	7.28	6.85	6.27	41.60	-20.3	-19.5	-25.2	0.58	0.06	-75.3	-101.8	-123.0	-143.6	361.5	-134.50
4.25	71.84	749.5	743.9	738.9	7.17	6.82	6.24	41.56	-19.5	-19.8	-25.7	0.32	0.00	-76.0	-102.9	-124.6	-145.1	507.5	-137.56
4.50	70.64	768.6	761.9	756.2	7.07	6.75	6.18	41.56	-18.0	-19.8	-25.9	0.14	0.06	-76.2	-104.6	-125.5	-145.8	606.7	-139.09
4.75	69.25	787.0	779.5	773.2	7.01	6.70	6.11	41.55	-17.3	-19.5	-25.3	0.01	0.13	-75.4	-103.8	-126.0	-146.2	851.6	-142.08
5.00	67.79	804.9	796.8	790.1	6.99	6.65	6.04	41.54	-16.0	-19.5	-26.0	0.08	0.19	-77.3	-105.7	-126.8	-146.8	1000.0	-143.22

*at 25°C unless mentioned otherwise



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