

Coaxial

Voltage Controlled Oscillator

ZX95-900+

Linear Tuning 625 to 885 MHz

Features

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

Applications

- r & d
- lab
- instrumentation
- wireless communication
- test equipment



CASE STYLE: GB956

Connectors	Model	Price	Qty.
SMA	ZX95-900-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

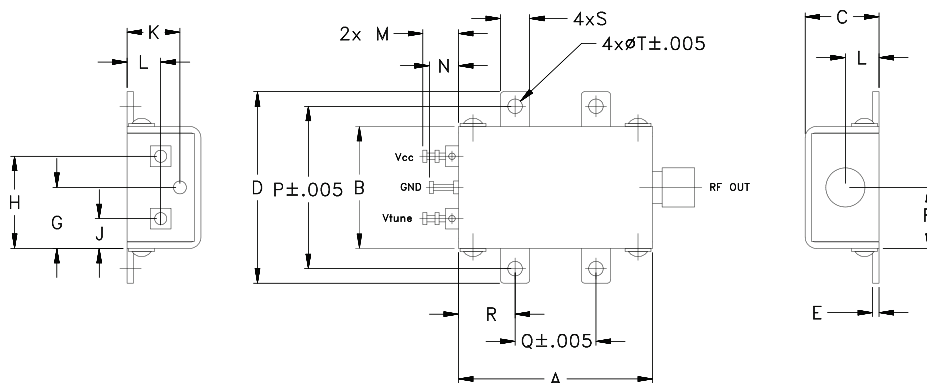
MODEL NO.	FREQ. (MHz)		POWER OUTPUT (dBm)	PHASE NOISE dBc/Hz SSB at offset frequencies,kHz				TUNING					NON HARMONIC SPURIOUS (dBc)	HARMONICS (dBc)		PULLING pk-pk @12 dB _r (MHz)	PUSHING (MHz/V)	DC OPERATING POWER	
								VOLTAGE RANGE (V)	SENSI- TIVITY (MHz/V)	PORT CAP (pF)	3 dB MODULATION BANDWIDTH (MHz)								
	Typ.	Min.		Max.	1	10	100	1000	Min.	Max.	Typ.	Typ.	Typ.	Typ.	Max.	Typ.	Typ.	V _{cc} (volts)	Current (mA)
ZX95-900+	625	885	+5.8	-82	-106	-127	-147	0.5	18	15-26	70	25	-90	-13	-	1.5	0.4	10	35

Maximum Ratings

Operating Temperature	-55°C to 85°C
Storage Temperature	-55°C to 100°C
Absolute Max. Supply Voltage (Vcc)	12V
Absolute Max. Tuning Voltage (Vtune)	20V
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

Mini-Circuits®
ISO 9001 ISO 14001 AS 9100 CERTIFIED

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IF/RF MICROWAVE COMPONENTS

For detailed performance specs & shopping online see web site

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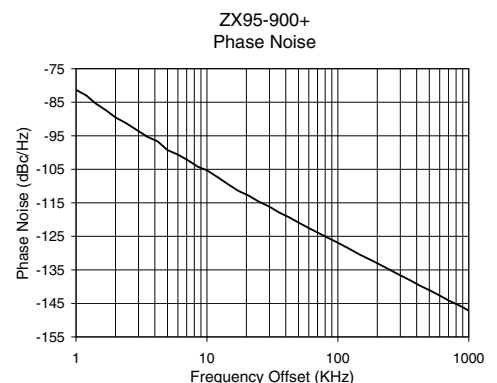
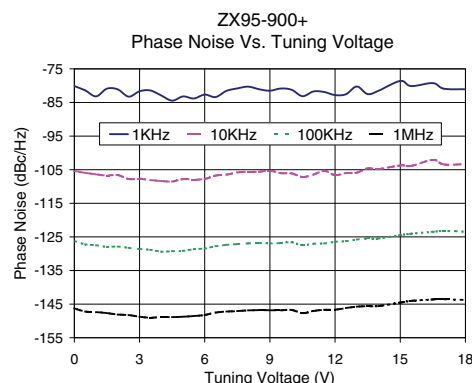
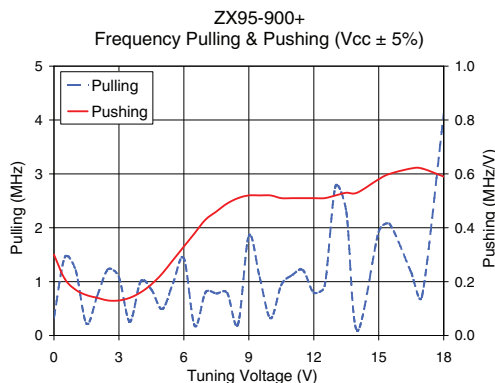
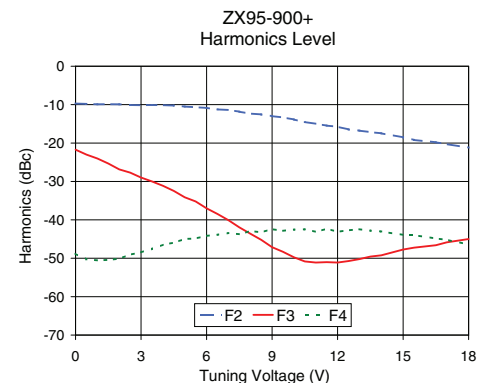
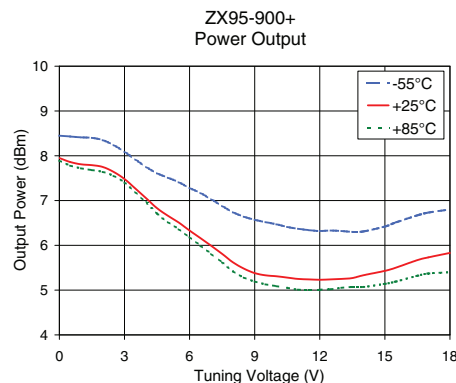
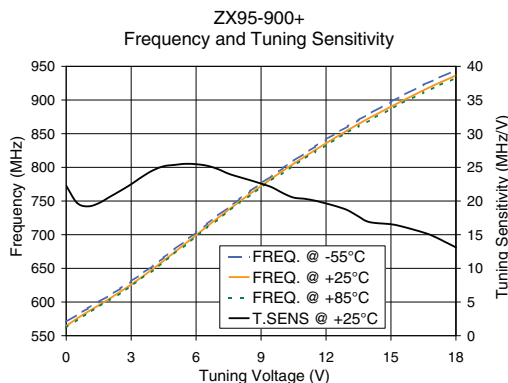
REV. OR
M119372
EDR-9058F2
ZX95-900+
RAV
120902
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Performance Data & Curves*

ZX95-900+

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 755 MHz (dBc/Hz)
		-55°C	+25°C	+85°C	-55°C	+25°C	+85°C		F2	F3	F4			1kHz	10kHz	100kHz	1MHz		
0.00	22.27	570.5	564.5	562.0	8.45	7.95	7.89	28.31	-9.7	-21.7	-48.8	0.30	0.33	-80.1	-105.4	-126.2	-146.3	1.0	-81.32
0.50	19.73	581.2	575.6	573.5	8.43	7.86	7.78	28.37	-9.8	-23.0	-50.3	0.21	1.45	-81.4	-105.9	-127.2	-147.2	2.0	-89.54
1.00	19.21	590.8	585.5	583.6	8.41	7.81	7.72	28.43	-9.9	-24.0	-50.5	0.17	1.21	-83.2	-106.4	-127.5	-147.4	3.5	-95.29
2.00	20.60	610.0	604.9	602.9	8.35	7.75	7.64	28.51	-9.9	-26.9	-50.1	0.14	0.74	-81.1	-106.6	-127.9	-148.1	6.0	-100.63
3.00	22.49	630.9	626.0	623.9	8.09	7.48	7.40	28.59	-10.1	-29.0	-48.5	0.13	1.08	-81.7	-107.7	-128.6	-148.8	8.5	-104.21
4.00	24.55	653.9	649.0	647.1	7.75	7.05	6.96	28.65	-10.1	-31.1	-46.5	0.16	1.00	-82.9	-108.4	-129.4	-148.8	10.0	-105.30
5.00	25.37	678.3	673.9	671.9	7.51	6.66	6.52	28.68	-10.5	-34.1	-45.0	0.23	0.49	-83.2	-107.8	-129.2	-148.8	20.8	-112.83
6.00	25.47	703.4	699.3	697.4	7.28	6.33	6.18	28.68	-10.9	-37.0	-44.2	0.33	1.43	-82.7	-107.8	-128.5	-148.3	35.5	-117.86
7.00	24.75	728.3	724.7	722.6	7.03	5.99	5.81	28.66	-11.4	-40.1	-43.4	0.43	0.80	-81.5	-106.5	-127.4	-147.2	60.7	-122.63
8.00	23.56	752.8	749.1	747.0	6.74	5.62	5.42	28.63	-12.3	-43.6	-42.9	0.49	0.79	-80.3	-105.6	-126.9	-146.9	86.7	-125.72
9.00	22.59	776.3	772.4	770.3	6.57	5.38	5.19	28.58	-13.0	-47.1	-42.4	0.52	1.85	-81.5	-105.3	-126.9	-146.8	100.0	-126.91
10.00	21.19	798.7	794.7	792.0	6.47	5.31	5.09	28.53	-13.9	-49.7	-42.6	0.52	0.32	-81.2	-106.1	-126.6	-146.7	148.1	-130.52
11.00	20.34	820.5	815.6	812.9	6.37	5.25	5.01	28.47	-15.0	-51.1	-43.1	0.51	1.12	-81.7	-106.5	-127.0	-147.1	177.0	-131.99
12.00	19.64	841.5	835.8	833.1	6.32	5.23	5.01	28.41	-15.8	-51.1	-43.1	0.51	0.79	-82.8	-106.6	-126.4	-146.7	211.6	-133.51
13.00	18.62	860.9	855.2	852.1	6.32	5.25	5.05	28.36	-16.8	-50.2	-42.4	0.52	2.77	-80.3	-105.9	-125.8	-145.8	302.4	-136.68
14.00	16.87	879.5	873.4	869.7	6.31	5.33	5.07	28.31	-17.5	-49.2	-43.0	0.53	0.09	-81.5	-104.8	-125.5	-145.6	361.5	-138.22
15.00	16.55	897.5	890.1	886.8	6.42	5.43	5.14	28.25	-18.5	-47.7	-43.9	0.58	1.93	-78.6	-103.8	-124.5	-144.6	507.5	-141.17
15.50	16.22	906.1	898.4	895.1	6.51	5.50	5.19	28.22	-19.2	-47.2	-44.0	0.60	2.07	-80.1	-103.9	-124.1	-144.0	606.7	-142.77
17.00	14.72	930.0	922.1	918.7	6.73	5.73	5.37	28.18	-20.3	-45.9	-45.2	0.62	0.73	-80.9	-103.4	-123.2	-143.6	851.6	-145.65
18.00	13.11	944.3	936.4	932.8	6.80	5.83	5.40	28.17	-21.2	-45.0	-46.4	0.59	4.11	-81.1	-103.4	-123.5	-143.8	1000.0	-147.14

*at 25°C unless mentioned otherwise



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