

Coaxial

Voltage Controlled Oscillator

ZX95-2500WA+

Wide Band 1550 to 2500 MHz

Features

- high power output +9 dBm typ.
- low phase noise
- low pulling
- low pushing
- protected by US patent 6,790,049

Applications

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



CASE STYLE: GB956

Connectors	Model	Price	Qty.
SMA	ZX95-2500WA-S+	\$ 49.95 ea.	(1-9)

+RoHS Compliant

The +Suffix identifies RoHS Compliance. See our web site for RoHS Compliance methodologies and qualifications

Electrical Specifications

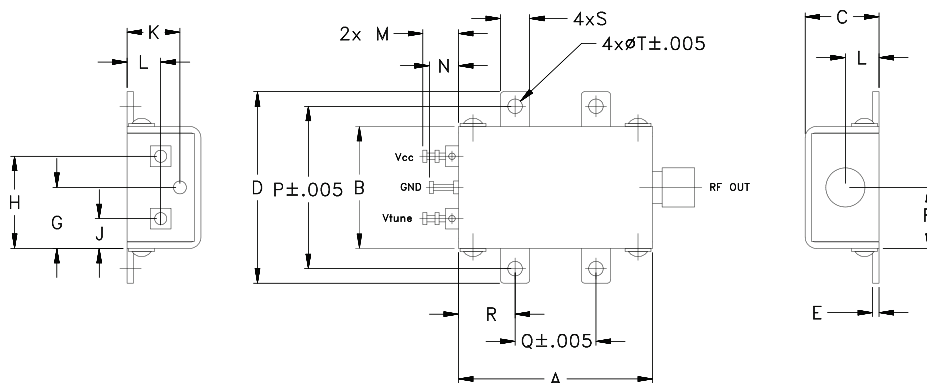
MODEL NO.	FREQ. (MHz)		POWER OUTPUT (dBm)	PHASE NOISE dBc/Hz SSB at offset frequencies,kHz				TUNING				NON HARMONIC SPURIOUS (dBc)	HARMONICS (dBc)		PULLING pk-pk @12 dB _r (MHz)	PUSHING (MHz/V)	DC OPERATING POWER		
								VOLTAGE RANGE (V)	SENSI- TIVITY (MHz/V)	PORT CAP (pF)	3 dB MODULATION BANDWIDTH (MHz)								
	Typ.	1	10	100	1000	Min.	Max.	Typ.	Typ.	Typ.	Typ.	Typ.	Typ.	Max.	Typ.	Typ.	V _{cc} (volts)	Current (mA)	
ZX95-2500WA+	Min.	Max.	Typ.	1	10	100	1000	Min.	Max.	Typ.	Typ.	Typ.	Typ.	Typ.	Max.	Typ.	Typ.	Max.	
ZX95-2500WA+	1550	2500	+9	-74	-100	-122	-141	2	22	38-74	50	30	-90	-19	-	1.7	1.3	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)	24V
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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Notes: 1. Performance and quality attributes and conditions not expressly stated in this specification sheet are intended to be excluded and do not form a part of this specification sheet. 2. Electrical specifications and performance data contained herein are based on Mini-Circuit's applicable established test performance criteria and measurement instructions. 3. The parts covered by this specification sheet are subject to Mini-Circuits standard limited warranty and terms and conditions (collectively, "Standard Terms"); Purchasers of this part are entitled to the rights and benefits contained therein. For a full statement of the Standard Terms and the exclusive rights and remedies thereunder, please visit Mini-Circuits' website at www.minicircuits.com/MCLStore/terms.jsp.

For detailed performance specs & shopping online see web site

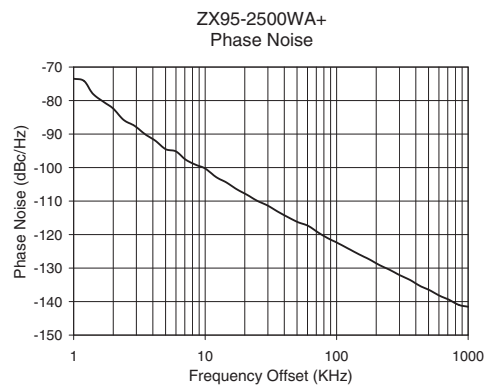
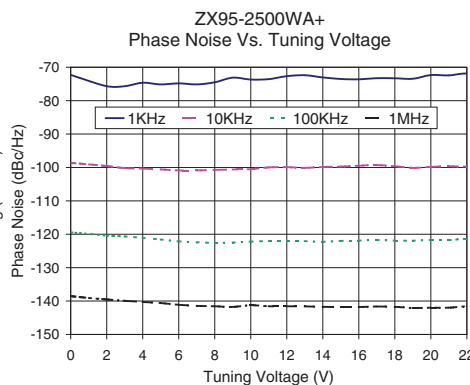
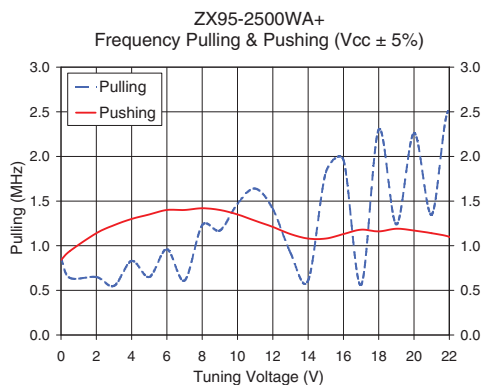
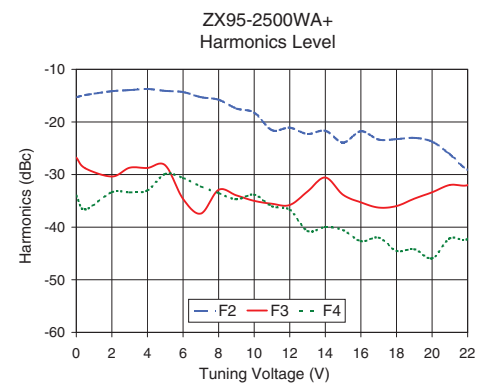
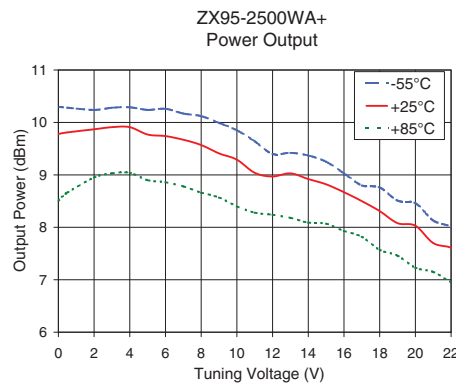
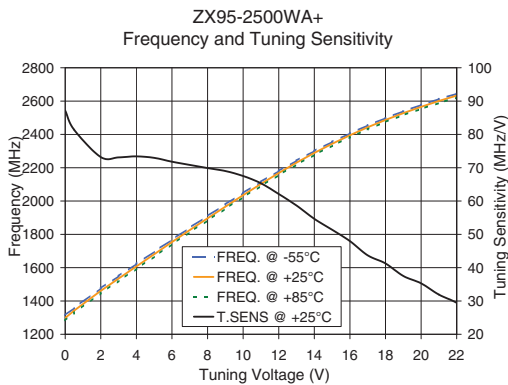
REV. OR
M128607
EDR-9912/1F2
ZX95-2500WA+
RAV
120904
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Performance Data & Curves*

ZX95-2500WA+

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 2025 MHz (dBc/Hz)
		-55°C	+25°C	+85°C	-55°C	+25°C	+85°C		F2	F3	F4			1kHz	10kHz	100kHz	1MHz		
0.00	87.14	1315.0	1298.3	1283.6	10.30	9.78	8.51	25.03	-15.3	-26.8	-34.0	0.84	0.86	-72.3	-98.7	-119.4	-138.5	1.0	-73.47
0.50	81.41	1357.7	1341.8	1327.7	10.28	9.81	8.66	25.12	-14.9	-28.8	-36.6	0.94	0.64	-73.2	-98.9	-119.7	-138.8	2.0	-82.41
2.00	73.20	1476.2	1461.1	1447.3	10.24	9.87	8.95	25.38	-14.2	-30.4	-33.3	1.14	0.65	-75.7	-99.6	-120.4	-139.5	3.5	-90.08
3.00	73.10	1549.8	1534.3	1520.2	10.28	9.91	9.03	25.55	-14.0	-28.7	-33.4	1.23	0.55	-75.7	-100.2	-120.7	-139.9	6.0	-95.18
4.00	73.40	1623.1	1607.4	1593.0	10.29	9.91	9.04	25.70	-13.7	-28.8	-33.0	1.30	0.83	-74.7	-100.4	-121.1	-140.3	8.5	-99.19
6.00	71.79	1768.2	1753.7	1740.2	10.26	9.74	8.86	25.93	-14.3	-34.6	-30.7	1.40	0.96	-74.8	-100.9	-122.1	-141.1	10.0	-100.29
7.00	70.84	1839.6	1825.5	1812.5	10.17	9.67	8.78	25.98	-15.3	-37.4	-32.2	1.40	0.61	-75.1	-100.9	-122.4	-141.5	20.8	-108.12
8.00	69.90	1910.0	1896.4	1883.6	10.12	9.57	8.66	26.02	-15.8	-32.9	-33.5	1.42	1.23	-74.5	-100.7	-122.6	-141.6	35.5	-113.11
9.00	68.99	1979.6	1966.3	1953.8	9.99	9.41	8.57	26.06	-17.5	-34.0	-34.7	1.40	1.17	-73.1	-100.6	-122.5	-141.8	60.7	-117.39
10.00	67.51	2048.2	2035.3	2023.0	9.85	9.29	8.40	26.08	-18.2	-35.0	-33.8	1.35	1.47	-73.7	-100.5	-122.2	-141.3	86.7	-121.18
11.00	65.32	2115.5	2102.8	2090.5	9.64	9.04	8.28	26.10	-21.6	-35.6	-36.0	1.28	1.64	-73.6	-100.0	-122.1	-141.6	100.0	-122.36
12.00	62.10	2180.6	2168.1	2155.8	9.40	8.97	8.24	26.10	-21.1	-35.8	-36.7	1.21	1.41	-72.7	-99.9	-122.0	-141.6	148.1	-125.90
13.00	58.66	2242.5	2230.2	2218.1	9.42	9.03	8.18	26.10	-22.3	-33.2	-40.7	1.13	0.92	-72.4	-100.1	-122.1	-141.6	177.0	-127.39
14.00	54.66	2300.6	2288.9	2276.9	9.37	8.92	8.09	26.11	-21.7	-30.6	-40.0	1.08	0.61	-73.1	-99.9	-122.2	-141.7	211.6	-129.10
16.00	47.95	2406.1	2394.9	2383.0	9.03	8.67	7.93	26.08	-21.8	-35.3	-42.7	1.13	1.96	-73.6	-99.5	-121.9	-141.8	302.4	-132.13
17.00	43.69	2454.2	2442.8	2430.5	8.80	8.50	7.82	26.05	-23.4	-36.3	-42.0	1.18	0.56	-73.3	-99.3	-121.7	-141.6	361.5	-133.55
18.00	41.26	2497.7	2486.5	2474.7	8.76	8.31	7.57	26.03	-23.3	-36.0	-44.5	1.16	2.30	-73.3	-99.6	-121.9	-141.7	507.5	-136.57
19.00	37.50	2539.1	2527.8	2515.7	8.51	8.08	7.46	25.99	-23.0	-34.6	-44.2	1.19	1.24	-73.4	-100.1	-121.9	-142.1	606.7	-138.26
20.00	35.30	2576.7	2565.3	2553.3	8.46	8.03	7.23	25.94	-23.7	-33.4	-45.9	1.17	2.26	-72.3	-99.8	-121.7	-142.0	851.6	-141.01
22.00	29.45	2644.2	2632.5	2620.3	8.01	7.61	6.96	25.82	-29.1	-32.0	-42.2	1.10	2.50	-71.9	-99.8	-121.4	-141.6	1000.0	-141.53

*at 25°C unless mentioned otherwise



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