

Coaxial Voltage Controlled Oscillator

Linear Tuning 1600 to 2500 MHz

ZX95-2500+
ZX95-2500

Features

- Linear Tuning
- Low Pushing
- Protected by US Patent 6,790,049

Applications

- R & D
- Lab
- Instrumentation
- Test Equipment



CASE STYLE: GB956

Connectors	Model	Price	Qty.
SMA	ZX95-2500-S+	\$46.95 ea.	(1-9)
SMA	ZX95-2500-S	\$46.95 ea.	(1-9)

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

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

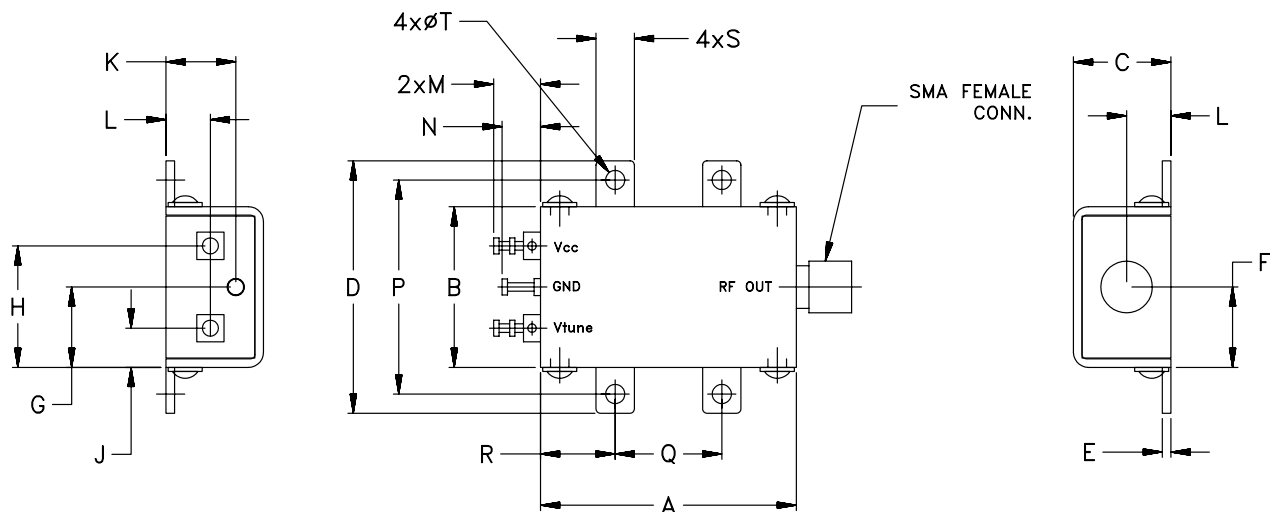
Electrical Specifications

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.		1	10	100	1000	VOLTAGE RANGE (V)	SENSITIVITY (MHz/V)	PORT CAP (pF)	3 dB MODULATION BANDWIDTH (MHz)		Typ.	Max.			Vcc (volts)	Current (mA)
ZX95-2500(+)	1600	2500	7.5	-64	-91	-112	-132	0.5 14.0	72.0-107.0	170	4.0	-90	-17.0	-	20.0	2.0	12.0	28

Maximum Ratings

Operating Temperature	-55°C to 85°C
Storage Temperature	-55°C to 100°C
Absolute Max. Supply Voltage (Vcc)	15V
Absolute Max. Tuning Voltage (Vtune)	16V
All specifications	50 ohm system

Outline Drawing



Outline Dimensions (inch)

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	.09	grams
30.50	19.10	11.6	30.0	1.0	9.6	11.4	14.5	4.7	8.3	5.3	5.6	4.6	25.4	12.7	8.9	4.6	2.3	35.0



INTERNET <http://www.minicircuits.com>

P.O. Box 350166, Brooklyn, New York 11235-0003 (718) 934-4500 Fax (718) 332-4661

Distribution Centers NORTH AMERICA 800-654-7949 • 417-335-5935 • Fax 417-335-5945 • EUROPE 44-1252-832600 • Fax 44-1252-837010

Mini-Circuits ISO 9001 & ISO 14001 Certified

REV. A
M98898
ED/R 7307/2
ZX95-2500
RAV/URJ
060702
page 1 of 2

Performance Data & Curves*

ZX95-2500+ ZX95-2500

V TUNE	TUNING SENS (MHz/V)	FREQUENCY (MHz)			POWER OUTPUT (dBm)			Icc (mA)	HARMONICS (dBc)			FREQ. PUSHING (MHz/V)	FREQ. PULLING (MHz)	PHASE NOISE (dBc/Hz) at offsets				FREQ OFFSET (kHz)	PHASE NOISE at 2050 MHz (dBc/Hz)
		-55°C	+25°C	+85°C	-55°C	+25°C	+85°C		F2	F3	F4			1 kHz	10 kHz	100 kHz	1 MHz		
0.0	47.5	1439.1	1413.3	1390.4	7.3	7.5	7.4	23	-15.8	-17.6	-28.3	0.19	20.14	-63.7	-88.7	-109.8	-129.6	1.00	-66.0
1.0	45.3	1485.5	1459.8	1436.6	7.2	7.3	7.1	23	-17.4	-16.7	-28.5	0.45	10.69	-66.1	-90.3	-110.9	-130.7	2.00	-71.5
1.5	53.8	1508.2	1482.4	1461.3	7.1	7.2	7.0	23	-18.2	-17.3	-30.4	0.57	9.81	-64.9	-90.0	-110.8	-131.0	3.50	-79.4
2.0	76.8	1536.9	1509.3	1488.4	6.9	7.1	6.9	23	-18.0	-19.6	-39.1	0.77	19.15	-65.9	-89.2	-109.9	-129.9	6.00	-85.5
2.5	83.8	1579.3	1547.8	1522.0	6.9	6.8	6.7	23	-18.7	-21.9	-47.5	0.93	10.20	-64.8	-87.9	-108.7	-128.6	8.50	-88.4
3.0	91.5	1629.8	1589.7	1562.7	6.9	6.9	6.5	23	-20.2	-21.3	-39.7	0.77	27.51	-63.2	-88.6	-108.7	-128.9	10.00	-89.7
4.0	101.0	1733.3	1683.9	1652.1	7.4	6.9	6.3	23	-22.6	-20.1	-42.8	0.71	19.01	-62.2	-89.3	-109.9	-129.9	20.80	-97.7
5.0	100.4	1838.6	1787.7	1755.5	7.9	7.2	6.2	23	-18.1	-18.1	-37.8	1.08	7.28	-64.2	-90.2	-110.3	-130.2	35.50	-101.9
6.0	104.7	1944.0	1891.4	1864.1	8.4	7.3	6.1	23	-18.8	-20.0	-34.1	1.79	16.62	-64.2	-89.9	-111.1	-131.3	60.70	-106.9
7.0	98.6	2042.7	1995.7	1970.6	8.8	7.5	6.2	23	-15.6	-21.9	-31.9	2.28	9.38	-64.9	-89.9	-111.3	-131.5	86.70	-109.9
8.0	90.2	2134.1	2093.7	2071.2	9.1	7.9	6.5	23	-13.5	-24.1	-32.4	2.76	6.30	-64.6	-90.4	-111.7	-132.0	100.00	-111.1
9.0	82.0	2218.8	2183.7	2164.6	9.3	8.1	6.8	23	-11.9	-28.5	-28.3	2.82	10.33	-62.5	-91.0	-112.2	-132.3	211.60	-117.8
10.0	82.5	2296.0	2265.9	2251.3	9.2	8.2	7.0	23	-13.4	-32.5	-31.7	2.18	10.73	-64.3	-91.5	-112.8	-133.1	361.50	-122.4
11.0	86.3	2372.4	2350.6	2336.2	8.7	7.6	6.6	23	-18.1	-38.4	-37.9	1.38	9.14	-66.6	-92.1	-112.8	-133.0	507.50	-125.5
12.0	75.9	2458.9	2433.0	2415.7	8.1	7.3	6.6	23	-17.8	-33.5	-40.8	1.55	10.13	-66.3	-93.0	-113.5	-133.9	600.00	-126.9
13.0	64.7	2535.9	2507.1	2487.2	7.9	7.3	6.5	23	-15.7	-28.2	-44.6	1.79	8.97	-66.2	-92.4	-114.2	-134.1	851.60	-129.9
14.0	64.8	2602.4	2571.8	2550.6	8.0	7.3	6.5	23	-15.2	-25.4	-48.9	2.03	13.40	-65.5	-92.7	-114.2	-134.4	1000.00	-131.1

*at 25°C unless mentioned otherwise

