

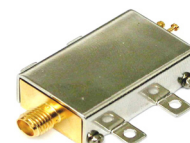
Coaxial Voltage Controlled Oscillator

ZX95-2500+ ZX95-2500

Linear Tuning 1600 to 2500 MHz

Features

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



CASE STYLE: GB956

Applications

- R & D
- Lab
- Instrumentation
- Test Equipment

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.

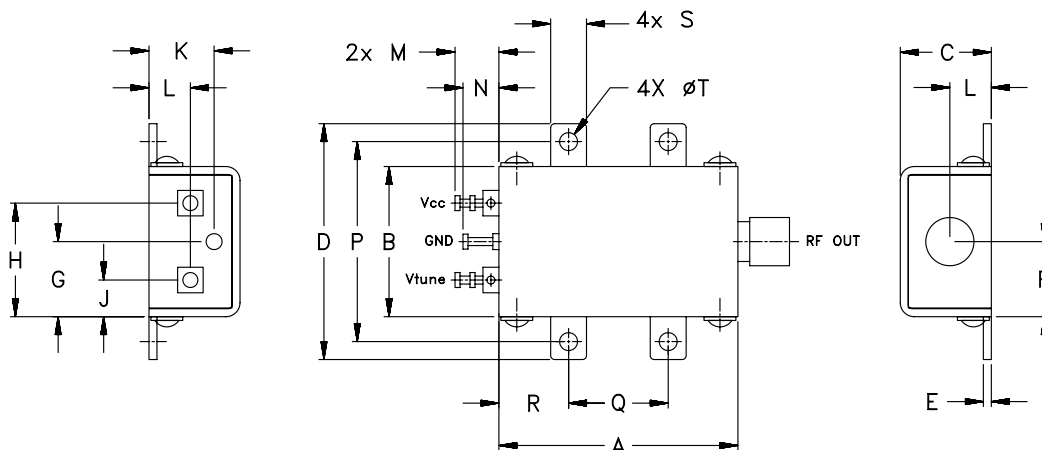
Electrical Specifications

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.		Typ.	1	10	100	1000	VOLTAGE RANGE (V)	SENSITIVITY (MHz/V)	PORT CAP (pF)		3 dB MODULATION BANDWIDTH (MHz)	Typ.			Typ.	Max.	Typ.
ZX95-2500(+)	1600	2500	+7.5	-64	-91	-112	-132	0.5	14	72 - 107	170	4	-90	-17	-	20	2	12	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/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	.45	.57	.18	.33	.21	.22	.18	1.00	.50	.35	.18	.09	grams
30.48	19.05	11.68	29.97	1.02	9.65	11.43	14.48	4.57	8.38	5.33	5.59	4.57	25.40	12.70	8.89	4.57	2.29	35.0



P.O. Box 350166, Brooklyn, New York 11235-0003 (718) 934-4500 Fax (718) 332-4661 For detailed performance specs & shopping online see Mini-Circuits web site



The Design Engineers Search Engine Provides ACTUAL Data Instantly From MINI-CIRCUITS At: www.minicircuits.com

RF/IF MICROWAVE COMPONENTS

REV. A
M98898
ED/R 7307/2
ZX95-2500
RAV/URJ
070604
page 1 of 2

Performance Data & Curves*

ZX95-2500+ ZX95-2500

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 2050 MHz (dBc/Hz)
		-55°C	+25°C	+85°C	-55°C	+25°C	+85°C		F2	F3	F4			1KHz	10KHz	100KHz	1MHz		
0.00	47.50	1439.1	1413.3	1390.4	7.29	7.52	7.36	22.83	-15.8	-17.6	-28.3	0.19	20.14	-63.7	-88.7	-109.8	-129.6	1.0	-66.03
0.50	45.44	1463.0	1437.1	1413.0	7.24	7.35	7.30	22.81	-16.7	-17.1	-28.6	0.34	24.02	-65.4	-88.4	-109.4	-129.4	2.0	-71.45
1.00	45.27	1485.5	1459.8	1436.6	7.18	7.28	7.13	22.80	-17.4	-16.7	-28.5	0.45	10.69	-66.1	-90.3	-110.9	-130.7	3.5	-79.41
2.00	76.81	1536.9	1509.4	1488.4	6.92	7.09	6.90	22.72	-18.0	-19.6	-39.1	0.77	19.15	-65.9	-89.2	-109.9	-129.9	6.0	-85.49
3.00	91.46	1629.8	1589.7	1562.7	6.91	6.88	6.52	22.73	-20.2	-21.3	-39.7	0.77	27.51	-63.2	-88.6	-108.7	-128.9	8.5	-88.43
4.00	101.01	1733.3	1683.9	1652.1	7.43	6.90	6.27	22.76	-22.6	-20.1	-42.8	0.71	19.01	-62.2	-89.3	-109.9	-129.9	10.0	-89.66
4.50	106.59	1788.5	1734.4	1702.1	7.77	7.05	6.25	22.76	-20.6	-19.1	-43.5	0.88	23.61	-63.2	-88.6	-109.8	-129.9	20.8	-97.68
5.00	100.44	1838.6	1787.7	1755.5	7.92	7.20	6.16	22.79	-18.1	-18.1	-37.8	1.08	7.28	-64.2	-90.2	-110.3	-130.2	35.5	-101.86
5.50	106.96	1892.6	1837.9	1809.2	8.18	7.21	6.23	22.77	-17.6	-19.1	-35.7	1.48	14.13	-62.3	-88.9	-110.4	-130.6	60.7	-106.86
6.00	104.66	1944.0	1891.4	1864.1	8.37	7.30	6.10	22.80	-18.8	-20.0	-34.1	1.79	16.62	-64.2	-89.9	-111.1	-131.3	86.7	-109.85
6.50	103.88	1995.1	1943.7	1917.3	8.58	7.36	6.22	22.81	-18.2	-21.2	-32.8	2.05	6.54	-64.2	-90.7	-110.9	-130.9	100.0	-111.05
7.00	98.56	2042.7	1995.7	1970.6	8.80	7.49	6.23	22.85	-15.6	-21.9	-31.9	2.28	9.38	-64.9	-89.9	-111.3	-131.5	148.1	-114.93
7.50	97.57	2090.4	2044.9	2021.2	8.92	7.70	6.37	22.86	-14.5	-23.6	-33.4	2.56	13.65	-64.5	-90.0	-111.3	-131.3	211.6	-117.77
8.00	90.20	2134.1	2093.7	2071.2	9.09	7.88	6.51	22.91	-13.5	-24.1	-32.4	2.76	6.30	-64.6	-90.4	-111.7	-132.0	361.5	-122.40
9.00	82.03	2218.8	2183.7	2164.6	9.25	8.11	6.81	22.92	-11.9	-28.5	-28.3	2.82	10.33	-62.5	-91.0	-112.2	-132.3	432.2	-123.98
10.00	82.50	2296.0	2265.9	2251.3	9.22	8.17	6.95	22.88	-13.4	-32.5	-31.7	2.18	10.73	-64.3	-91.5	-112.8	-133.1	507.5	-125.45
11.00	86.27	2372.4	2350.6	2336.2	8.70	7.58	6.63	22.92	-18.1	-38.4	-37.9	1.38	9.14	-66.6	-92.1	-112.8	-133.0	600.0	-126.90
12.00	75.86	2458.9	2433.0	2415.7	8.05	7.30	6.57	22.97	-17.8	-33.5	-40.8	1.55	10.13	-66.3	-93.0	-113.5	-133.9	712.4	-128.17
13.00	64.67	2535.9	2507.1	2487.2	7.94	7.26	6.53	22.97	-15.7	-28.2	-44.6	1.79	8.97	-66.2	-92.4	-114.2	-134.1	851.6	-129.92
14.00	64.81	2602.4	2571.8	2550.6	8.01	7.25	6.50	22.93	-15.2	-25.4	-48.9	2.03	13.40	-65.5	-92.7	-114.2	-134.4	1000.0	-131.06

*at 25°C unless mentioned otherwise

