Voltage Controlled Oscillator

ZX95-100+ ZX95-100

Linear Tuning 50 to 100 MHz

Features

- Linear Tuning
- · Octave Bandwidth
- · Low Phase Noise
- Low Pushing
- · Low Pulling
- · Excellent Harmonic Suppression
- · Protected by US Patent 6,790,049

Applications

- R & D
- Lab
- · Instrumentation
- · Test Equipment



CASE STYLE: GB956

Connectors	Model	Price	Qty.
SMA	ZX95-100-S+	\$37.95 ea.	(1-9)
SMA	ZX95-100-S	\$37.95 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.

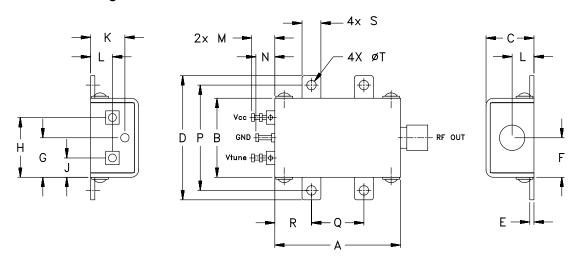
Electrical Specifications

MODEL NO.	FREQ. (MHz)	POWER OUTPUT (dBm)	dBc	/Hz S equer	ncies,l	offset	VOL [*]	TAGE NGE			3 dB MODULATION	HARMONIC SPURIOUS	ARMONIC (dBc) PURIOUS		RMONICS PULLING pk-pk @12 dBr (MHz)		OPERATING POWER	
				Т	yp.		(V)			BANDWIDTH (MHz)						Vcc (volts)	Current (mA)
	Min. Max	тур.	1	10	100	1000	Min.	Мах.	Тур.	Тур.	Тур.	Тур.	Тур.	Max.	Тур.	Тур.		Max.
ZX95-100(+)	50 100	+10	-86	-110	-131	-151	0.5	17	3.5 - 4.5	550	0.18	-90	-33	-24	0.4	0.1	12	20

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 (Vtu	ne) 18V
All enecifications	50 ohm evetem

Outline Drawing



Outline Dimensions (inch)

.46 1.18 .04 .38 .45 .57 .18 .33 .21 .22 .18 1.00 .50 .35 .18 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







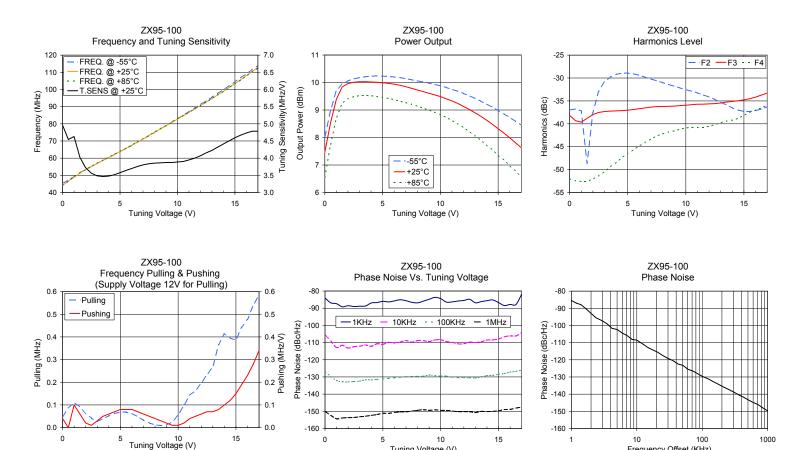
page 1 of 2

Performance Data & Curves*

ZX95-100+ ZX95-100

V TUNE	TUNE SENS (MHz/V)		EQUEN (MHz)	CY	POW	ER OU' (dBm)	TPUT Icc HARMONICS (dBc) FREQ. PHASE NOISE (dBc/Hz) (mA) PUSH PULL (MHz/V) at offsets					Hz)	FREQ OFFSET (KHz)	PHASE NOISE at 75 MHz					
	(-55°C	+25°C	+85°C	-55°C	+25°C	+85°C		F2	F3	F4	(,	(1KHz	10KHz	100KHz	1MHz	(****	(dBc/Hz)
0.00 0.50 1.00 2.00 3.00 4.00 5.00 6.00 7.00 8.00 10.00 11.00 13.00 14.00 15.00 15.00	4.96 4.54 4.63 3.72 3.49 3.48 3.58 3.70 3.80 3.86 3.87 3.89 3.95 4.07 4.23 4.41 4.59 4.73	45.2 47.2 49.3 53.4 56.9 60.3 63.7 67.3 71.1 74.9 78.9 83.0 87.1 91.3 99.9 104.5 109.2	44.1 46.6 48.9 53.2 56.9 60.3 63.8 67.4 71.2 75.0 78.8 82.7 86.6 90.6 94.7 99.0 103.4 108.1	44.0 46.7 49.1 53.4 57.0 60.5 64.0 67.6 71.3 75.2 79.1 82.9 86.8 90.7 94.7 98.9 103.3 107.9	8.02 8.98 9.71 10.06 10.18 10.23 10.23 10.20 10.14 10.06 9.98 9.75 9.60 9.42 9.22 8.98 8.73	7.46 8.54 9.39 9.96 10.03 10.02 9.99 9.94 9.85 9.73 9.61 9.49 9.33 9.13 8.90 8.63 8.32 7.99	6.55 7.74 8.71 9.52 9.52 9.46 9.38 9.27 9.14 9.00 8.83 8.62 8.36 8.06 7.73 7.36 6.98	16.08 15.81 15.47 15.16 14.98 14.82 14.79 14.79 14.79 14.79 14.77 14.75 14.65	-37.0 -36.8 -37.2 -37.5 -30.8 -29.2 -28.9 -29.4 -30.2 -31.0 -31.8 -32.5 -33.3 -34.2 -35.3 -36.5 -37.3 -37.1	-38.2 -39.3 -39.6 -38.0 -37.3 -37.2 -37.0 -36.4 -36.2 -36.1 -36.0 -35.7 -35.6 -35.5 -35.1 -34.8 -34.2	-52.0 -52.4 -52.6 -52.1 -50.4 -48.4 -46.5 -44.9 -43.3 -42.2 -41.5 -40.9 -40.8 -40.6 -39.8 -39.2 -38.2 -38.2	0.04 0.00 0.10 0.02 0.03 0.06 0.08 0.06 0.04 0.02 0.01 0.04 0.06 0.07	0.05 0.09 0.11 0.06 0.03 0.05 0.07 0.06 0.03 0.01 0.01 0.05 0.14 0.20 0.27 0.41	-84.1 -86.9 -87.4 -88.6 -88.8 -87.0 -86.0 -85.8 -85.7 -86.9 -84.8 -84.5 -86.3 -85.5 -86.3 -85.6 -86.7	-105.4 -109.1 -112.9 -113.2 -112.1 -112.2 -111.0 -110.1 -108.8 -108.8 -109.4 -109.9 -110.7 -110.0 -108.5 -107.9 -106.0	-126.9 -129.7 -132.1 -132.8 -132.4 -131.7 -131.1 -130.5 -129.9 -129.7 -128.9 -129.4 -130.1 -130.4 -130.6 -129.3 -128.5 -127.2	-150.0 -152.3 -154.4 -153.2 -152.4 -151.2 -150.7 -150.3 -149.5 -149.5 -149.9 -150.2 -150.7 -150.2 -149.7 -150.7	1.0 2.0 3.5 6.0 8.5 10.0 20.8 35.5 60.7 86.7 100.0 148.1 211.6 361.5 432.2 507.5 600.0 712.4	-85.44 -92.96 -98.98 -104.43 -108.56 -115.56 -120.41 -125.52 -128.28 -129.57 -132.77 -135.82 -140.42 -141.86 -143.36 -144.84 -146.08
16.50 17.00	4.78 4.78	111.6 114.0	110.4 112.8	110.2 112.5	8.59 8.45	7.81 7.63	6.78 6.57	14.64 14.62	-36.8 -36.3	-33.7 -33.3	-36.5 -35.9	0.28 0.34	0.54 0.59	-87.9 -81.9	-106.2 -104.1	-126.8 -126.0	-148.1 -147.6	851.6 1000.0	-148.09 -149.73

^{*}at 25°C unless mentioned otherwise







Frequency Offset (KHz)

Tuning Voltage (V)