

Coaxial

Voltage Controlled Oscillator

ZX95-780+

Linear Tuning 720 to 780 MHz

Features

- high power output, +10dBm typ.
- linear tuning characteristics
- low phase noise
- low pushing
- low pulling
- protected by US patent 6,790,049

Applications

- r & d
- lab
- instrumentation
- wireless communications
- mobile radio services



CASE STYLE: GB956

Connectors	Model	Price	Qty.
SMA	ZX95-780-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

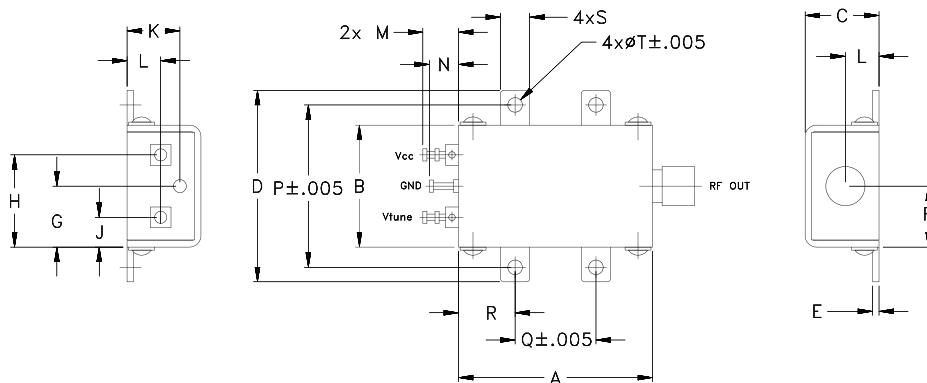
MODEL NO.	FREQ. (MHz)		POWER OUTPUT (dBm)	PHASE NOISE dBc/Hz SSB at offset frequencies,kHz				TUNING					NON HARMONIC SPURIOUS (dBc)	HARMONICS (dBc)		PULLING pk-pk @12 dB (MHz)	PUSHING (MHz/V)	DC OPERATING POWER	
				Typ.				VOLTAGE RANGE (V)	SENSI-TIVITY (MHz/V)	PORT CAP (pF)	3 dB MODULATION BANDWIDTH (MHz)	Typ.		Typ.	Typ.			Typ.	Vcc (volts)
	Min.	Max.	Typ.	1	10	100	1000	Min.	Max.	Typ.	Typ.	Typ.	Typ.	Typ.	Max.	Typ.	Typ.	Max.	
ZX95-780+	720	780	+10	-88	-114	-135	-155	0.5	12	11-14	170	20	-90	-21	-15	1	0.7	12	26

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 (Vtune)	14V
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



For detailed performance specs & shopping online see web site

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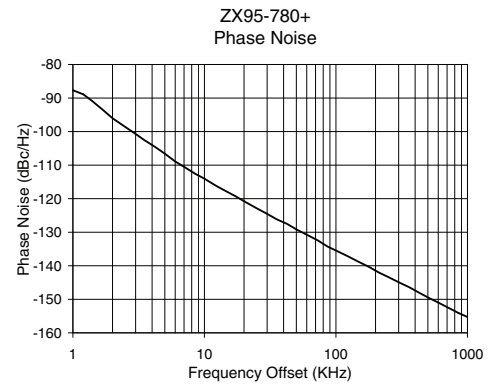
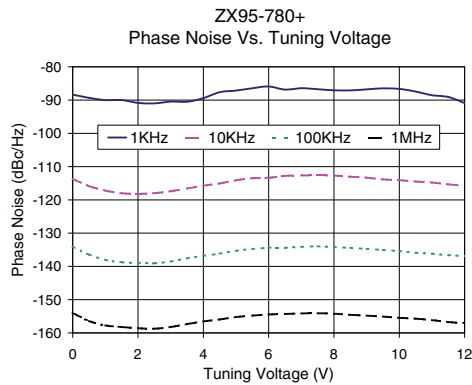
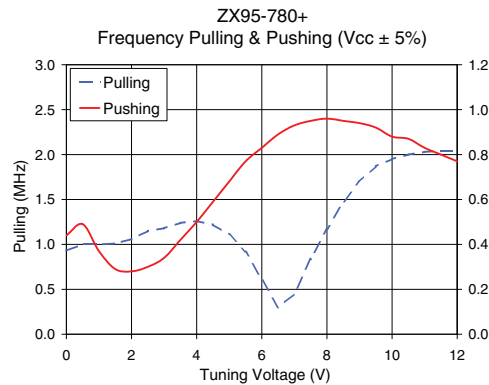
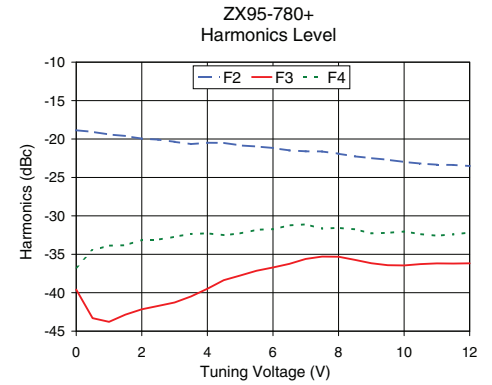
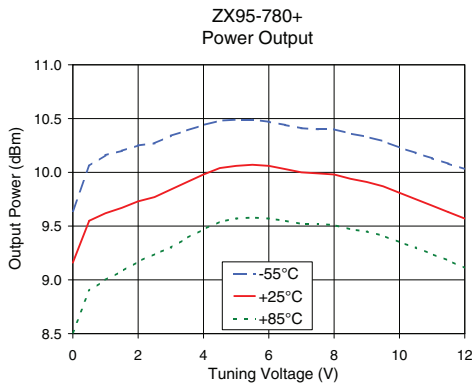
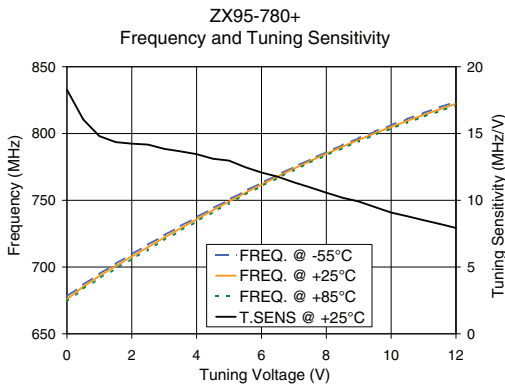
REV. OR
M111692
EDR-7973F2
ZX95-780+
RAV
120830
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Performance Data & Curves*

ZX95-780+

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 750 MHz (dBc/Hz)
		-55°C	+25°C	+85°C	-55°C	+25°C	+85°C		F2	F3	F4			1kHz	10kHz	100kHz	1MHz		
0.00	18.28	678.0	676.1	674.1	9.64	9.16	8.51	20.76	-18.9	-39.6	-36.7	0.44	0.93	-88.4	-113.7	-134.1	-154.0	1.0	-87.69
0.50	16.06	686.8	685.2	683.6	10.06	9.55	8.90	21.03	-19.1	-43.3	-34.5	0.49	1.00	-89.3	-115.9	-136.5	-156.4	2.0	-96.03
1.00	14.80	694.9	693.2	691.6	10.16	9.62	9.00	21.09	-19.4	-43.8	-33.9	0.37	1.00	-90.0	-117.2	-138.0	-157.8	3.5	-102.56
1.50	14.36	702.4	700.6	698.9	10.20	9.67	9.08	21.12	-19.6	-42.9	-33.8	0.29	1.01	-90.0	-118.0	-138.8	-158.2	6.0	-108.92
2.00	14.24	709.6	707.8	706.0	10.25	9.73	9.17	21.16	-20.0	-42.2	-33.1	0.28	1.06	-90.9	-118.1	-138.9	-158.6	8.5	-112.58
2.50	14.17	716.8	714.9	713.1	10.27	9.77	9.24	21.18	-20.1	-41.7	-33.1	0.30	1.15	-91.0	-118.0	-139.1	-158.7	10.0	-114.05
3.00	13.85	723.8	722.0	720.2	10.34	9.84	9.30	21.21	-20.4	-41.3	-32.7	0.34	1.18	-90.5	-117.4	-138.5	-158.2	20.8	-121.14
4.00	13.45	737.3	735.8	734.2	10.44	9.98	9.47	21.27	-20.5	-39.5	-32.3	0.50	1.26	-89.4	-115.7	-136.8	-156.6	35.5	-126.16
5.00	12.97	750.5	749.1	747.7	10.49	10.06	9.57	21.29	-20.8	-37.8	-32.3	0.68	1.11	-87.1	-114.1	-135.3	-155.2	60.7	-130.85
6.00	12.08	763.0	761.8	760.6	10.47	10.06	9.57	21.30	-21.2	-36.7	-31.7	0.83	0.61	-85.9	-113.3	-134.4	-154.4	86.7	-134.32
7.00	11.34	774.9	773.7	772.6	10.41	10.00	9.52	21.32	-21.6	-35.6	-31.1	0.93	0.45	-86.4	-112.7	-134.1	-154.1	100.0	-135.46
8.00	10.57	786.0	784.9	783.7	10.40	9.98	9.51	21.34	-21.9	-35.3	-31.6	0.96	1.17	-87.1	-112.7	-134.2	-154.2	148.1	-138.79
8.50	10.19	791.3	790.1	789.0	10.36	9.94	9.47	21.34	-22.3	-35.7	-31.8	0.95	1.47	-87.1	-113.0	-134.4	-154.6	177.0	-140.27
9.00	9.91	796.5	795.2	794.1	10.33	9.91	9.45	21.34	-22.5	-36.2	-32.3	0.94	1.70	-86.8	-113.3	-134.7	-154.8	211.6	-142.00
9.50	9.49	801.5	800.2	799.0	10.29	9.87	9.41	21.35	-22.7	-36.4	-32.2	0.92	1.87	-86.5	-113.9	-135.0	-155.1	302.4	-144.98
10.00	9.08	806.3	804.9	803.7	10.23	9.81	9.35	21.36	-23.0	-36.5	-32.0	0.88	1.95	-86.6	-114.1	-135.4	-155.5	361.5	-146.42
10.50	8.81	810.9	809.5	808.2	10.18	9.75	9.30	21.36	-23.2	-36.3	-32.4	0.87	2.00	-87.4	-114.5	-135.9	-155.7	507.5	-149.57
11.00	8.51	815.3	813.9	812.6	10.13	9.69	9.24	21.36	-23.3	-36.2	-32.6	0.83	2.03	-88.6	-114.8	-136.2	-156.1	606.7	-151.08
11.50	8.23	819.6	818.1	816.8	10.08	9.63	9.18	21.37	-23.4	-36.2	-32.4	0.80	2.04	-89.1	-115.3	-136.6	-156.7	851.6	-154.07
12.00	7.93	823.8	822.2	820.9	10.03	9.57	9.11	21.37	-23.5	-36.2	-32.2	0.77	2.04	-90.9	-115.8	-136.8	-157.0	1000.0	-155.28

*at 25°C unless mentioned otherwise



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