

Coaxial

Voltage Controlled Oscillator

ZX95-4000+

Linear Tuning 3850 to 4000 MHz

Features

- linear tuning characteristics
- low phase noise
- low pushing
- low pulling
- protected by US patent 6,790,049

Applications

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



CASE STYLE: GB956

Connectors	Model	Price	Qty.
SMA	ZX95-4000-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

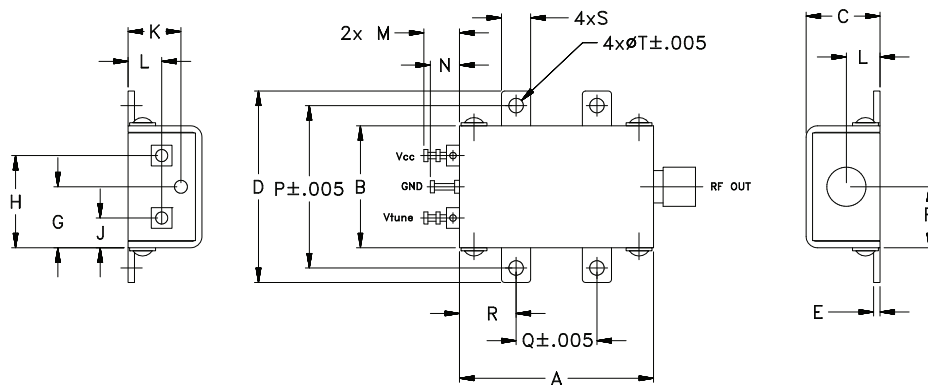
MODEL NO.	FREQ. (MHz)		POWER OUTPUT (dBm)	PHASE NOISE dBc/Hz SSB at offset frequencies,KHz				TUNING					NON HARMONIC SPURIOUS (dBc)	HARMONICS (dBc)		PULLING pk-pk @12 dB _r (MHz)	PUSHING (MHz/V)	DC OPERATING POWER					
	Min.	Max.		Typ.	1	10	100	1000	VOLTAGE RANGE (V)		SENSI- TIVITY (MHz/V)	PORT CAP (pF)		3 dB MODULATION BANDWIDTH (MHz)	Typ.			Typ.	Max.	Typ.	Max.	V _{cc} (volts)	Current (mA)
									Min.	Max.													
ZX95-4000+	3850	4000	+5	-72	-96	-117	-137	0.5	10	26-36	50	13	-90	-26	-15	3	2.5	5	40				

Maximum Ratings

Operating Temperature	-55°C to 85°C
Storage Temperature	-55°C to 100°C
Absolute Max. Supply Voltage (Vcc)	7V
Absolute Max. Tuning Voltage (Vtune)	12V
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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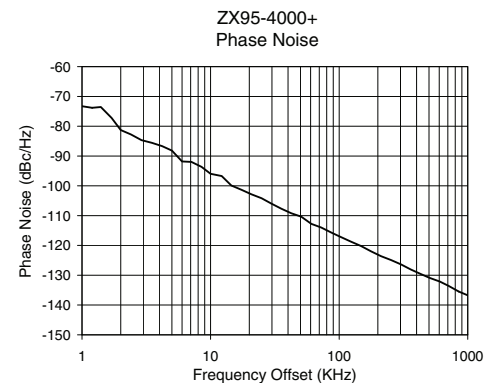
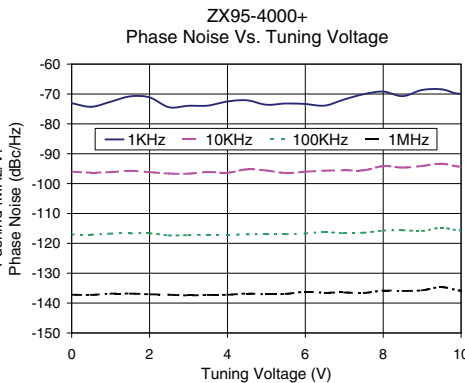
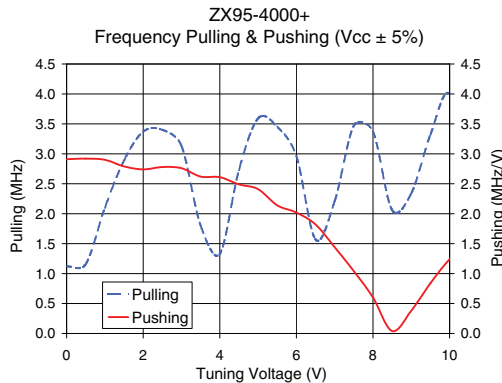
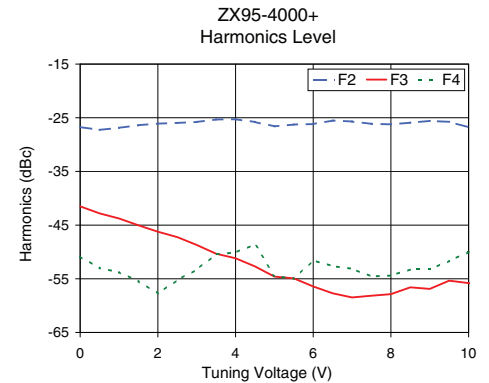
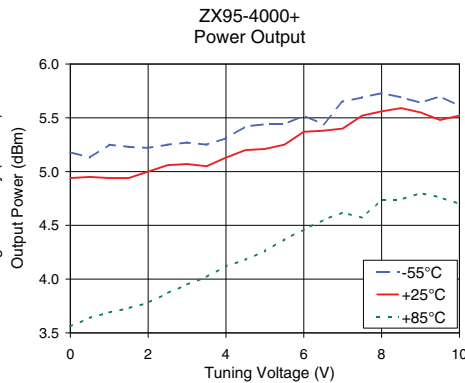
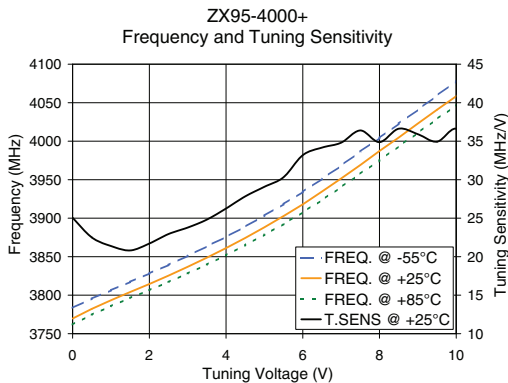
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ZX95-4000+
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Performance Data & Curves*

ZX95-4000+

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 3925 MHz (dBc/Hz)
		-55°C	+25°C	+85°C	-55°C	+25°C	+85°C		F2	F3	F4			1kHz	10kHz	100kHz	1MHz		
0.00	25.05	3783.5	3769.7	3761.9	5.18	4.94	3.56	34.10	-26.7	-41.5	-50.9	2.91	1.12	-73.1	-96.0	-117.0	-137.2	1.0	-73.30
0.50	22.50	3795.5	3782.2	3774.5	5.13	4.95	3.64	34.14	-27.3	-42.8	-53.0	2.92	1.16	-74.3	-96.3	-117.1	-137.3	2.0	-81.28
1.00	21.38	3806.4	3793.5	3785.7	5.25	4.94	3.69	34.17	-26.9	-43.8	-53.8	2.90	2.10	-72.6	-96.1	-116.7	-136.9	3.5	-85.58
1.50	20.82	3817.3	3804.2	3796.3	5.23	4.94	3.73	34.21	-26.4	-45.0	-55.4	2.79	2.89	-70.8	-95.7	-116.7	-136.8	6.0	-91.83
2.00	21.71	3828.2	3814.6	3806.5	5.22	5.00	3.78	34.24	-26.1	-46.2	-57.7	2.74	3.37	-71.1	-96.2	-116.6	-137.1	8.5	-93.62
2.50	22.95	3839.3	3825.4	3817.0	5.25	5.06	3.87	34.26	-26.0	-47.2	-55.2	2.78	3.40	-74.4	-96.7	-117.3	-137.2	10.0	-95.95
3.00	23.78	3851.0	3836.9	3828.2	5.27	5.07	3.95	34.29	-25.8	-48.7	-53.3	2.76	3.13	-73.9	-96.7	-117.3	-137.4	20.8	-102.85
3.50	24.82	3863.4	3848.8	3839.7	5.25	5.05	4.02	34.33	-25.3	-50.3	-50.4	2.62	1.80	-73.9	-96.1	-117.1	-137.3	35.5	-107.67
4.00	26.26	3875.7	3861.2	3851.9	5.31	5.13	4.12	34.37	-25.3	-51.2	-50.1	2.61	1.33	-72.5	-96.4	-117.1	-137.2	60.7	-112.75
4.50	27.84	3889.0	3874.3	3865.1	5.42	5.20	4.18	34.41	-25.8	-52.7	-48.6	2.49	2.73	-72.1	-95.2	-117.0	-136.8	86.7	-115.66
5.00	29.08	3903.4	3888.2	3878.5	5.44	5.21	4.26	34.45	-26.6	-54.6	-54.5	2.41	3.59	-73.6	-95.6	-116.9	-137.1	100.0	-116.92
6.00	33.19	3934.3	3917.9	3907.8	5.52	5.37	4.46	34.52	-26.2	-56.4	-51.6	2.02	2.96	-73.3	-96.0	-116.7	-136.2	148.1	-120.21
6.50	34.17	3951.1	3934.5	3923.5	5.44	5.38	4.55	34.55	-25.5	-57.7	-52.6	1.82	1.57	-73.9	-95.7	-116.3	-136.5	177.0	-121.98
7.00	34.81	3968.2	3951.6	3940.4	5.65	5.40	4.62	34.59	-25.7	-58.5	-53.1	1.44	2.21	-71.8	-95.5	-116.6	-136.5	211.6	-123.60
7.50	36.39	3986.6	3969.0	3957.7	5.69	5.52	4.57	34.60	-26.1	-58.2	-54.6	1.04	3.47	-70.1	-95.5	-116.5	-136.6	302.4	-126.37
8.00	34.88	4004.2	3987.2	3975.0	5.73	5.56	4.74	34.60	-26.2	-57.9	-54.4	0.60	3.37	-69.2	-94.2	-115.7	-135.8	361.5	-128.09
8.50	36.62	4022.8	4004.7	3993.3	5.69	5.59	4.74	34.60	-25.9	-56.6	-53.3	0.04	2.06	-70.7	-94.6	-115.6	-136.0	507.5	-130.92
9.00	35.91	4040.9	4023.0	4010.8	5.64	5.55	4.80	34.56	-25.6	-56.9	-53.2	0.38	2.34	-68.7	-94.1	-115.9	-135.7	606.7	-132.12
9.50	34.94	4059.4	4040.9	4028.9	5.70	5.48	4.76	34.53	-25.8	-55.4	-51.7	0.84	3.32	-68.5	-93.3	-114.8	-134.6	851.6	-135.48
10.00	36.62	4077.8	4058.4	4046.3	5.61	5.52	4.70	34.45	-26.8	-55.8	-50.0	1.24	4.00	-69.8	-94.3	-115.7	-135.8	1000.0	-136.75

*at 25°C unless mentioned otherwise



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