

Coaxial

Voltage Controlled Oscillator

ZX95-5400+

Linear Tuning 4300 to 5400 MHz

Features

- linear tuning characteristics
- low harmonics, -30 dBc typ.
- low pulling
- low pushing
- protected by US patent 6,790,049

Applications

- r & d
- lab
- instrumentation
- wireless communications
- point-to-point



CASE STYLE: GB956

Connectors Model

SMA ZX95-5400-S+

+RoHS Compliant

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

Electrical Specifications

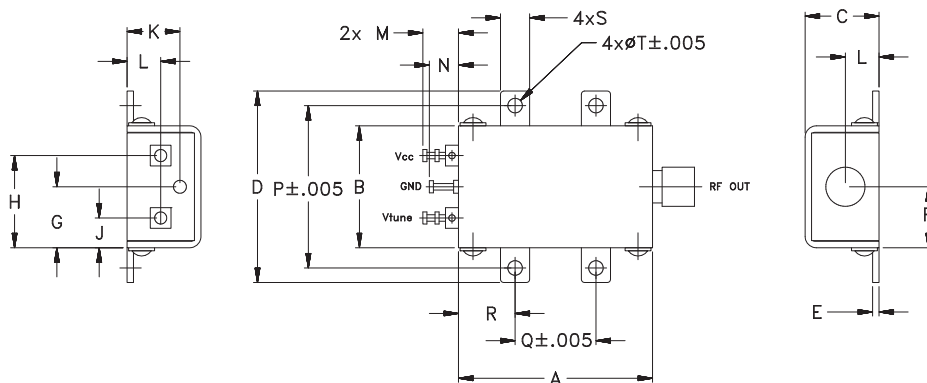
MODEL NO.	FREQ. (MHz)		POWER OUTPUT (dBm)	PHASE NOISE dBc/Hz SSB at offset frequencies,kHz				TUNING					NON HARMONIC SPURIOUS (dBc)	HARMONICS (dBc)		PULLING pk-pk @12 dB _r (MHz)	PUSHING (MHz/V)	DC OPERATING POWER		
				Typ.				VOLTAGE RANGE (V)		SENSI- TIVITY (MHz/V) (pF)		3 dB MODULATION BANDWIDTH (MHz)								
	Min.	Max.		1	10	100	1000	Min.	Max.	Typ.	Typ.	Typ.		Typ.	Typ.			Typ.	Max.	Typ.
ZX95-5400+	4300	5400	-0.5	-56	-83	-104	-124	0.5	19	70-130	20	150	-90	-30	-15	9	14	5	30	

Maximum Ratings

Operating Temperature	-55°C to 85°C
Storage Temperature	-55°C to 100°C
Absolute Max. Supply Voltage (Vcc)	6.5V
Absolute Max. Tuning Voltage (Vtune)	21.0V
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

Notes

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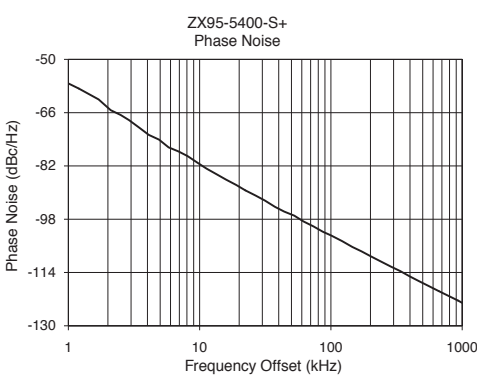
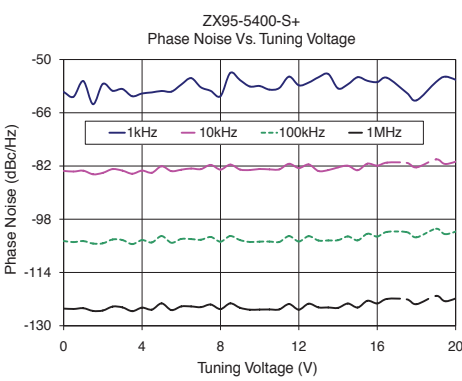
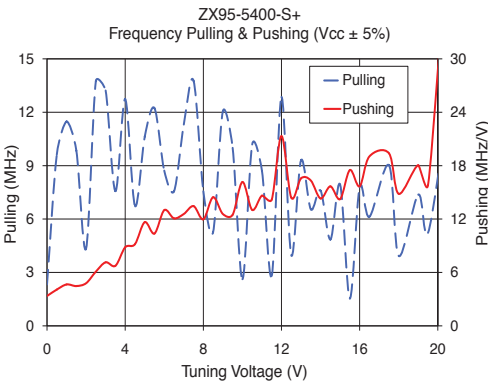
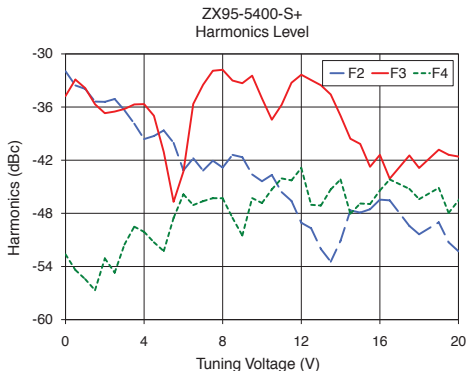
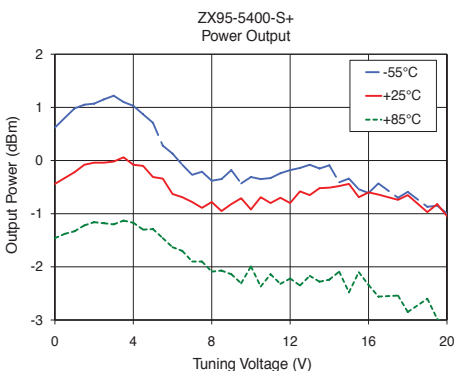
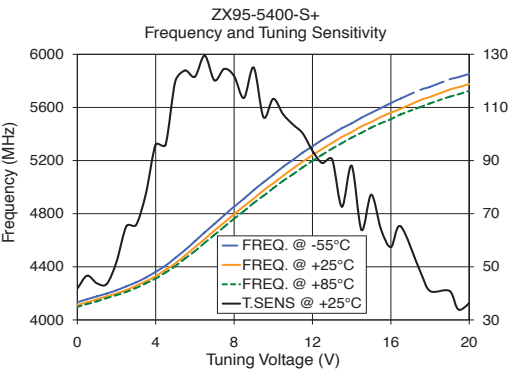
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Performance Data & Curves*

ZX95-5400+

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 4850 MHz (dBc/Hz)
		-55°C	+25°C	+85°C	-55°C	+25°C	+85°C		F2	F3	F4			1kHz	10kHz	100kHz	1MHz		
0.00	41.82	4132.5	4111.6	4098.6	0.62	-0.44	-1.46	22.74	-32.0	-34.8	-52.6	3.36	2.33	-59.74	-83.5	-104.5	-124.8	1.0	-57.22
0.50	46.65	4156.1	4132.6	4119.6	0.80	-0.33	-1.38	22.76	-33.6	-32.9	-54.4	4.08	9.62	-61.21	-83.7	-104.9	-125.0	2.5	-66.68
1.00	43.78	4177.3	4155.9	4140.4	0.98	-0.22	-1.33	22.77	-34.0	-33.9	-55.4	4.65	11.48	-56.48	-83.4	-104.6	-124.7	4.1	-72.67
2.50	65.26	4252.9	4225.5	4211.1	1.15	-0.04	-1.18	22.80	-35.1	-36.5	-54.7	6.09	13.75	-59.40	-82.9	-104.1	-124.2	6.9	-77.65
3.00	65.80	4283.1	4258.1	4240.8	1.22	-0.02	-1.20	22.76	-36.4	-36.2	-51.5	7.14	13.22	-58.87	-83.4	-104.3	-124.5	10.0	-81.47
4.00	96.08	4362.9	4329.8	4311.5	1.03	-0.08	-1.17	22.69	-39.6	-35.7	-50.1	8.83	12.74	-60.21	-83.4	-104.3	-124.6	11.3	-82.82
5.00	119.84	4467.2	4425.8	4405.3	0.71	-0.31	-1.29	22.55	-38.6	-41.1	-52.3	11.65	10.63	-59.45	-82.1	-103.1	-123.3	22.3	-89.35
6.00	121.58	4592.5	4547.7	4518.1	0.13	-0.63	-1.63	22.36	-43.2	-43.3	-45.9	13.00	8.72	-57.53	-83.1	-103.9	-124.2	37.5	-94.28
7.00	120.19	4723.2	4673.2	4640.8	-0.27	-0.78	-1.90	22.26	-43.2	-33.5	-46.6	12.57	11.31	-58.35	-83.0	-104.2	-124.4	61.8	-98.65
7.50	124.51	4788.8	4733.3	4701.3	-0.21	-0.89	-1.90	22.20	-42.1	-31.9	-46.3	13.45	13.76	-59.42	-81.7	-103.3	-123.6	86.7	-101.75
8.00	121.82	4852.9	4795.6	4762.6	-0.38	-0.78	-2.09	22.18	-42.8	-31.8	-46.3	11.97	7.56	-61.02	-83.1	-104.7	-125.0	100.0	-102.84
9.00	125.03	4977.2	4913.3	4880.8	-0.18	-0.82	-2.14	22.11	-41.7	-33.3	-50.5	12.57	12.05	-56.18	-83.1	-104.3	-124.6	145.5	-106.33
10.00	113.24	5093.3	5028.9	4991.7	-0.31	-0.92	-1.99	22.03	-44.4	-35.0	-46.8	16.16	2.62	-57.96	-82.9	-104.7	-125.1	170.8	-107.65
12.00	93.68	5307.0	5241.2	5197.5	-0.18	-0.80	-2.22	21.97	-49.1	-32.4	-42.9	21.33	12.85	-57.76	-82.6	-104.7	-125.2	204.2	-109.26
13.00	90.49	5398.7	5332.6	5289.7	-0.08	-0.65	-2.17	21.96	-52.0	-33.5	-47.1	16.57	9.30	-55.34	-83.5	-104.4	-124.5	286.7	-112.25
13.50	72.63	5443.5	5377.8	5330.6	-0.15	-0.52	-2.28	21.97	-53.5	-34.6	-45.3	16.33	6.55	-54.34	-83.2	-104.4	-124.5	336.6	-113.56
15.00	77.16	5559.5	5490.1	5448.4	-0.34	-0.44	-2.48	21.92	-47.9	-40.2	-46.9	14.24	7.93	-55.31	-83.3	-104.4	-124.5	472.5	-116.66
16.00	57.42	5633.0	5560.7	5511.3	-0.61	-0.60	-2.34	21.89	-46.5	-41.4	-45.4	15.68	7.79	-56.79	-81.9	-103.2	-123.3	564.9	-118.19
18.00	40.89	5754.9	5678.9	5630.4	-0.59	-0.65	-2.85	21.84	-50.4	-42.9	-46.4	14.83	3.93	-62.27	-82.4	-103.4	-123.5	931.1	-122.43
19.00	40.89	5811.1	5734.1	5680.8	-0.87	-0.97	-2.60	21.80	-49.0	-40.8	-45.1	18.05	7.37	-56.77	-80.0	-100.9	-121.0	1000.0	-123.12

*at 25°C unless mentioned otherwise



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