

Coaxial

Voltage Controlled Oscillator

ZX95-4300+

5V Tuning for PLL IC's 4150 to 4300 MHz

Features

- low phase noise
- low pushing
- protected by US patent 6,790,049



CASE STYLE: GB956

Applications

- r & d
- lab
- instrumentation
- wireless communications
- radio altimetry

Connectors	Model	Price	Qty.
SMA	ZX95-4300-S+	\$44.95 ea.	(1-9)

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

Electrical Specifications

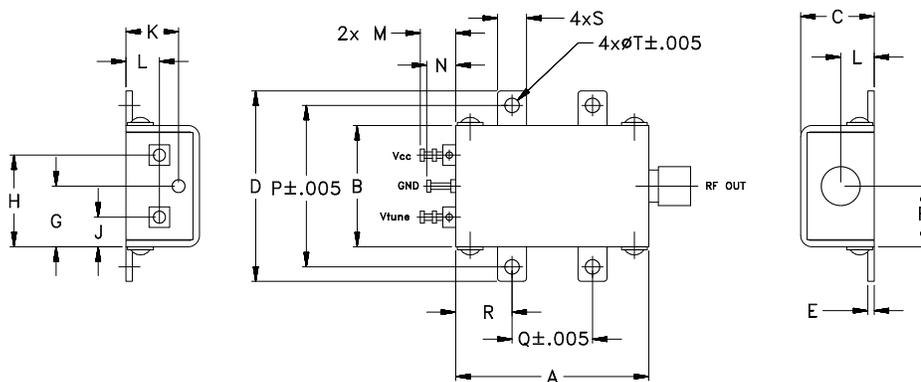
MODEL NO.	FREQ. (MHz)		POWER OUTPUT (dBm)	PHASE NOISE dBc/Hz SSB at offset frequencies, KHz				TUNING					NON HARMONIC SPURIOUS (dBc)	HARMONICS (dBc)		PULLING pk-pk @12 dB (MHz)	PUSHING (MHz/V)	DC OPERATING POWER	
	Min.	Max.		Typ.	1	10	100	1000	VOLTAGE RANGE (V)	SENSITIVITY (MHz/V)	PORT CAP (pF)	3 dB MODULATION BANDWIDTH (MHz)		Typ.	Typ.			Max.	Vcc (volts)
ZX95-4300+	4150	4300	+4.5	-62	-90	-112	-132	0.5	5	58-97	16	330	-90	-26	-18	6	2.5	5	35

Maximum Ratings

Operating Temperature	-55°C to 85°C
Storage Temperature	-55°C to 100°C
Absolute Max. Supply Voltage (Vcc)	6V
Absolute Max. Tuning Voltage (Vtune)	7V
All specifications	50 ohm system

Permanent damage may occur if any of the 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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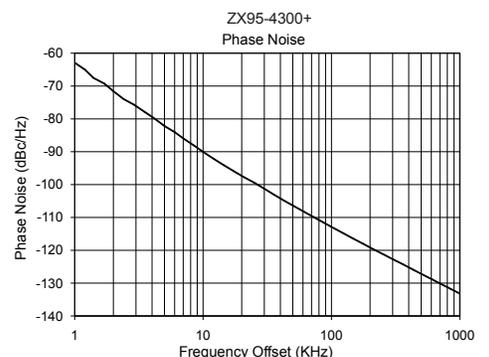
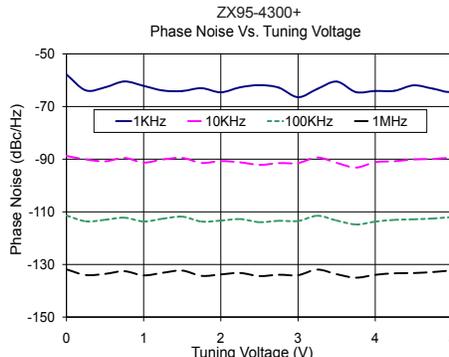
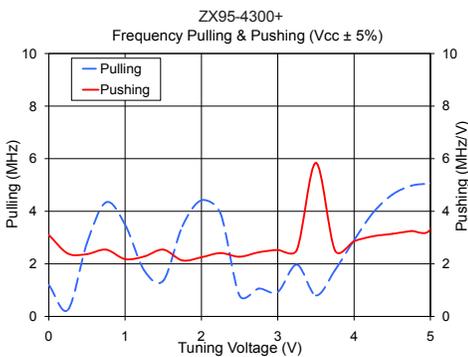
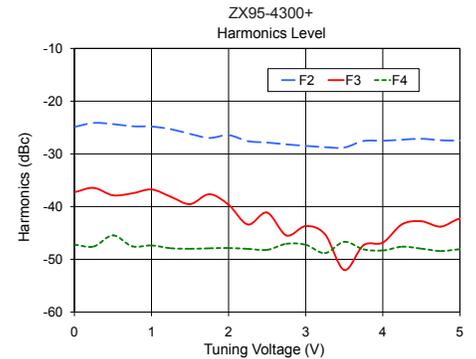
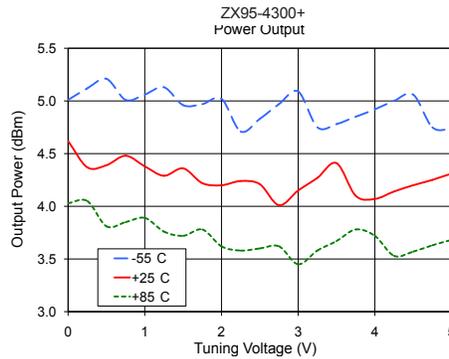
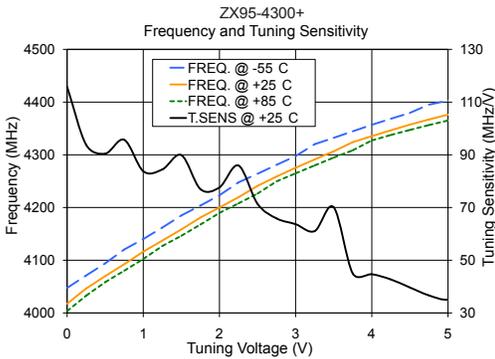
REV. A
M143120
EDR-11065MPF1
ZX95-4300+
RAV
130826
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Performance Data & Curves*

ZX95-4300+

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 4225 MHz (dBc/Hz)
		-55°C	+25°C	+85°C	-55°C	+25°C	+85°C		F2	F3	F4			1kHz	10kHz	100kHz	1MHz		
0.00	115.82	4047.3	4017.4	4003.5	5.01	4.62	4.03	29.10	-24.9	-37.3	-47.2	3.10	1.20	-57.81	-88.8	-111.4	-131.9	1.0	-62.90
0.50	90.41	4094.1	4069.8	4058.4	5.21	4.39	3.81	29.07	-24.3	-37.9	-45.5	2.37	2.79	-62.69	-90.8	-113.0	-133.6	2.0	-71.55
0.75	95.68	4120.3	4092.4	4080.1	5.01	4.48	3.85	29.03	-24.8	-37.5	-47.5	2.54	4.34	-60.47	-89.5	-112.2	-132.6	3.5	-77.85
1.00	83.74	4140.1	4116.3	4102.4	5.06	4.38	3.89	29.02	-24.8	-36.8	-47.4	2.18	3.49	-62.15	-91.3	-113.7	-134.1	6.0	-84.02
1.25	84.42	4161.9	4137.2	4126.9	5.13	4.29	3.76	29.00	-25.3	-38.1	-47.9	2.28	1.75	-63.91	-90.1	-112.6	-133.2	8.5	-88.11
1.50	89.86	4185.0	4158.4	4146.4	4.96	4.36	3.72	28.98	-26.2	-39.5	-48.0	2.54	1.36	-64.10	-89.5	-111.8	-132.3	10.0	-90.04
1.75	76.98	4203.6	4180.8	4167.6	4.97	4.22	3.78	28.98	-27.0	-37.7	-47.9	2.13	3.43	-63.01	-91.4	-113.7	-134.3	20.8	-97.74
2.00	77.63	4223.3	4200.1	4189.8	5.02	4.20	3.62	28.96	-26.5	-39.7	-47.9	2.25	4.42	-64.58	-90.7	-113.3	-133.8	35.5	-103.00
2.25	85.93	4247.6	4219.5	4207.8	4.71	4.24	3.58	28.94	-27.6	-43.4	-48.0	2.41	3.92	-62.69	-91.2	-112.8	-133.2	60.7	-108.20
2.50	71.38	4264.1	4241.0	4226.4	4.83	4.21	3.60	28.93	-27.9	-41.1	-48.2	2.27	0.79	-61.87	-92.2	-113.9	-134.4	86.7	-111.54
2.75	65.85	4280.8	4258.8	4249.5	4.97	4.01	3.62	28.95	-28.2	-45.5	-47.1	2.44	1.06	-62.81	-91.5	-113.4	-133.9	100.0	-112.89
3.00	63.68	4297.4	4275.3	4264.8	5.09	4.15	3.45	28.94	-28.5	-43.7	-47.3	2.53	0.93	-66.43	-91.5	-113.5	-134.1	123.9	-114.82
3.25	61.05	4320.0	4291.2	4279.8	4.75	4.27	3.58	28.93	-28.7	-45.2	-48.8	2.53	1.97	-63.30	-89.4	-111.5	-132.0	177.0	-118.04
3.50	70.10	4332.0	4306.4	4294.6	4.78	4.41	3.67	28.91	-28.8	-52.0	-46.7	5.84	0.80	-60.50	-91.4	-113.3	-133.7	211.6	-119.67
3.75	44.97	4344.5	4324.0	4308.5	4.85	4.10	3.78	28.94	-27.6	-47.3	-48.1	2.51	1.76	-64.49	-93.2	-114.8	-135.0	302.4	-122.77
4.00	44.68	4356.8	4335.2	4327.2	4.92	4.07	3.72	28.94	-27.5	-46.8	-48.3	2.86	2.90	-64.07	-91.2	-113.7	-133.9	361.5	-124.28
4.25	42.72	4368.3	4346.4	4337.6	5.00	4.14	3.53	28.93	-27.3	-43.4	-47.6	3.05	3.95	-64.00	-90.8	-113.1	-133.4	507.5	-127.29
4.50	39.66	4379.5	4357.1	4347.0	5.06	4.20	3.57	28.92	-27.1	-42.8	-48.0	3.14	4.63	-61.93	-90.1	-112.9	-133.3	606.7	-128.84
4.75	36.65	4395.0	4367.0	4356.4	4.75	4.25	3.63	28.90	-27.4	-43.8	-48.4	3.25	4.97	-63.21	-89.9	-112.5	-132.9	712.4	-130.24
5.00	35.05	4402.6	4376.1	4365.0	4.74	4.31	3.68	28.89	-27.5	-42.3	-48.1	3.32	5.07	-64.27	-89.5	-112.1	-132.4	1000.0	-133.19

*at 25 C unless mentioned otherwise



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