

Coaxial

Voltage Controlled Oscillator

ZX95-2632C-S+

Linear Tuning 2434 to 2632 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 communication
- point-to-point radio
- WiMAX 2.5 GHz



CASE STYLE: GB956

Connectors	Model
SMA	ZX95-2632C-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	
								VOLTAGE RANGE (V)	SENSI- TIVITY (MHz/V)	PORT CAP (pF)	3 dB MODULATION BANDWIDTH (MHz)								
	Typ.	1		10	100	1000	Typ.	Typ.	Typ.	Typ.	Typ.	Typ.		Typ.	Max.			Typ.	Typ.
	Min.	Max.	Typ.					Min.	Max.	Typ.	Typ.	Typ.	Typ.	Typ.	Max.	Typ.	Typ.	Max.	
ZX95-2632C-S+	2434	2632	-0.3	-81	-108	-129	-149	1	12	27-31	17	110	-90	-16	-	0.4	0.1	8	40

Maximum Ratings

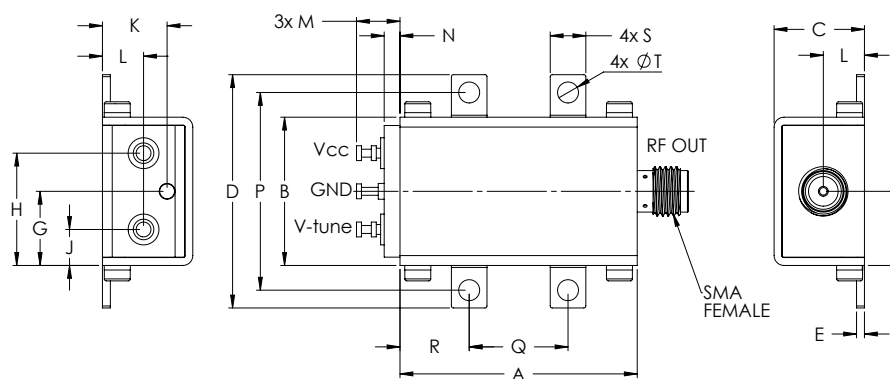
Operating Temperature	-55°C to 85°C
Storage Temperature	-55°C to 100°C
Absolute Max. Supply Voltage (Vcc)	9V
Absolute Max. Tuning Voltage (Vtune)	14V
All specifications	50 ohm system

Permanent damage may occur if any of these limits are exceeded.



NOTE: When soldering the DC connections, caution must be used to avoid overheating the DC terminals. See Application Note [AN-40-10](#).

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	.08	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	2.03	25.40	12.70	8.89	4.57	2.69	35.0

Notes

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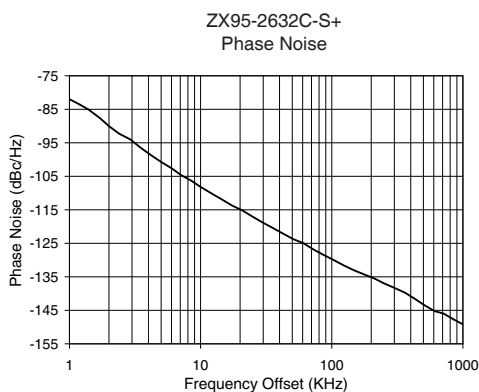
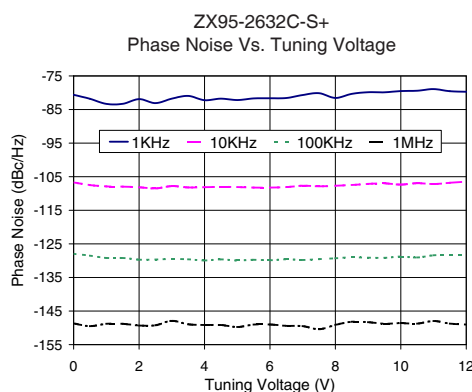
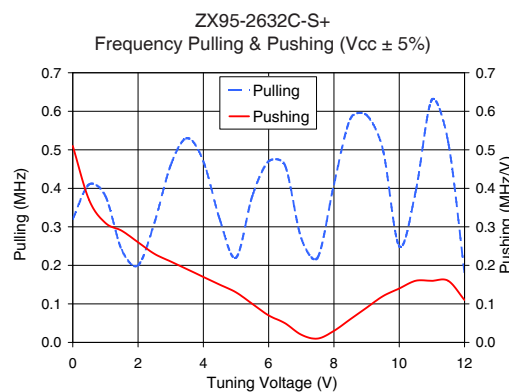
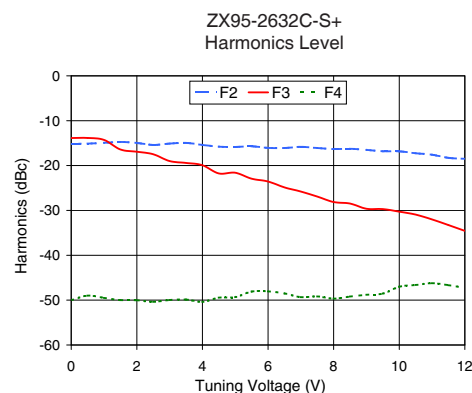
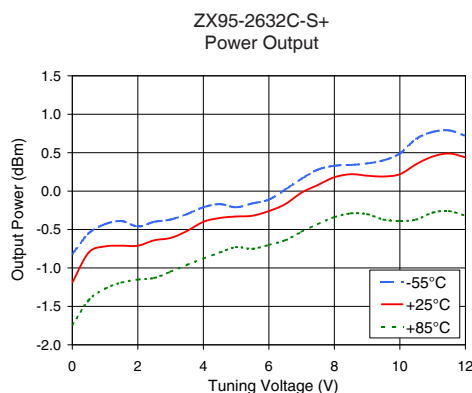
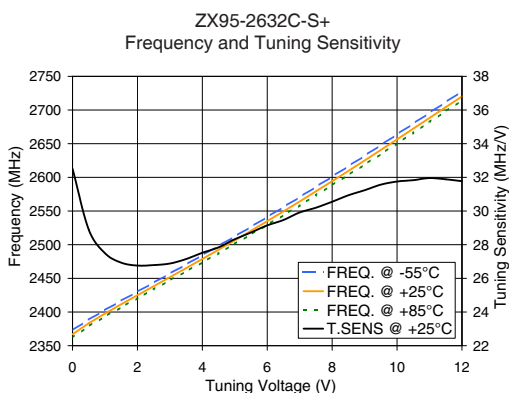
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Performance Data & Curves*

ZX95-2632C-S+

V TUNE	TUNE SENS (MHz/V)	FREQUENCY (MHz)			POWER OUTPUT (dBm)			I _{cc} (mA)	HARMONICS (dBc)			FREQ. PUSH (MHz/V)	FREQ. PULL (MHz)	PHASE NOISE (dBc/Hz) at offsets				FREQ OFFSET (KHz)	PHASE NOISE at 2533 MHz (dBc/Hz)
		-55°C	+25°C	+85°C	-55°C	+25°C	+85°C		F2	F3	F4			1kHz	10kHz	100kHz	1MHz		
0.00	32.51	2373.0	2367.0	2362.1	-0.82	-1.19	-1.74	26.79	-15.1	-13.9	-50.0	0.51	0.32	-80.6	-106.7	-128.0	-148.7	1.0	-81.98
0.50	28.89	2388.7	2383.3	2378.9	-0.55	-0.80	-1.42	26.85	-15.1	-13.8	-49.0	0.37	0.41	-81.8	-107.5	-128.5	-149.5	2.0	-90.04
1.00	27.49	2402.9	2397.7	2393.5	-0.43	-0.72	-1.27	26.88	-14.9	-14.3	-49.5	0.31	0.38	-83.3	-107.9	-129.2	-148.8	3.5	-96.52
2.00	26.76	2430.2	2425.0	2420.6	-0.46	-0.71	-1.15	26.89	-15.0	-16.9	-50.0	0.26	0.20	-81.9	-108.2	-129.7	-149.3	6.0	-102.60
3.00	26.88	2457.1	2451.7	2447.0	-0.37	-0.61	-1.05	26.88	-15.1	-19.0	-50.0	0.21	0.46	-81.8	-107.8	-129.5	-147.9	8.5	-106.32
3.50	27.15	2470.7	2465.2	2460.4	-0.30	-0.52	-0.96	26.87	-15.0	-19.4	-49.9	0.19	0.53	-80.9	-108.2	-129.6	-148.9	10.0	-108.16
4.00	27.52	2484.4	2478.7	2473.8	-0.21	-0.40	-0.88	26.85	-15.4	-19.9	-50.4	0.17	0.47	-82.2	-108.1	-130.0	-149.2	20.8	-115.17
4.50	27.84	2498.3	2492.5	2487.4	-0.17	-0.35	-0.80	26.84	-15.8	-21.8	-49.5	0.15	0.32	-81.8	-108.0	-129.6	-149.2	35.5	-120.41
5.00	28.32	2512.3	2506.4	2501.2	-0.21	-0.33	-0.73	26.81	-15.9	-21.6	-49.3	0.13	0.22	-82.2	-108.1	-129.9	-149.8	60.7	-124.95
5.50	28.72	2526.6	2520.6	2515.2	-0.16	-0.32	-0.75	26.79	-15.7	-22.9	-48.1	0.10	0.38	-81.7	-108.3	-129.7	-149.0	86.7	-128.48
6.00	29.15	2541.2	2534.9	2529.5	-0.11	-0.26	-0.70	26.77	-16.1	-23.6	-48.0	0.07	0.47	-81.7	-108.2	-129.9	-149.0	100.0	-129.68
6.50	29.47	2555.9	2549.5	2543.9	0.02	-0.17	-0.64	26.74	-16.1	-24.9	-48.5	0.05	0.46	-81.6	-108.1	-129.6	-149.4	148.1	-133.07
7.00	29.91	2570.8	2564.2	2558.6	0.16	-0.02	-0.53	26.72	-15.8	-25.8	-49.3	0.02	0.27	-80.7	-107.7	-129.8	-149.5	177.0	-134.31
7.50	30.20	2585.9	2579.2	2573.4	0.28	0.08	-0.43	26.69	-16.1	-26.9	-49.2	0.01	0.22	-80.1	-107.9	-129.6	-150.4	211.6	-135.52
8.00	30.55	2601.1	2594.3	2588.4	0.33	0.18	-0.34	26.66	-16.3	-28.1	-49.7	0.03	0.41	-81.6	-107.7	-129.3	-149.1	302.4	-138.35
8.50	30.94	2616.6	2609.6	2603.6	0.34	0.22	-0.29	26.63	-16.3	-28.5	-49.2	0.06	0.58	-80.3	-107.5	-129.0	-148.2	361.5	-139.73
9.00	31.24	2632.2	2625.0	2619.0	0.36	0.20	-0.30	26.59	-16.5	-29.6	-48.8	0.09	0.59	-79.9	-107.1	-129.1	-148.3	507.5	-143.43
10.00	31.75	2663.8	2656.4	2650.3	0.49	0.22	-0.39	26.53	-16.8	-30.3	-47.0	0.14	0.25	-79.5	-107.4	-128.8	-148.6	606.7	-145.24
11.00	31.96	2695.8	2688.2	2682.2	0.77	0.45	-0.28	26.46	-17.6	-32.0	-46.2	0.16	0.63	-78.9	-107.2	-128.4	-148.0	851.6	-147.72
12.00	31.77	2727.7	2720.2	2714.2	0.72	0.44	-0.32	26.39	-18.5	-34.6	-47.2	0.11	0.18	-79.7	-106.5	-128.3	-149.0	1000.0	-149.18

*at 25°C unless mentioned otherwise



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