

Coaxial

Voltage Controlled Oscillator

ZX95-2536C+

5V Tuning for PLL IC's 2315 to 2536 MHz

Features

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



CASE STYLE: GB956

Applications

- r & d
- lab
- instrumentation
- industrial scientific and medical
- WiMAX
- TD-SCDMA / HSDPA

Connectors	Model
SMA	ZX95-2536C-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 (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.	Typ.	Typ.
ZX95-2536C+	2315	2536	+6	-75	-105	-128	-148	0.5	5	57-77	13.6	70	-90	-18	-10	2.5	2.5	5	45

Maximum Ratings

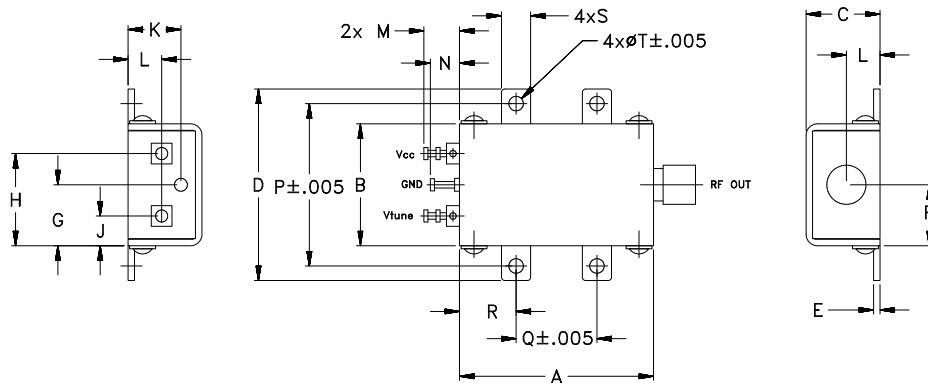
Operating Temperature	-55°C to 85°C
Storage Temperature	-55°C to 100°C
Absolute Max. Supply Voltage (Vcc)	5.6V
Absolute Max. Tuning Voltage (Vtune)	7.0V
All specifications	50 ohm system

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	.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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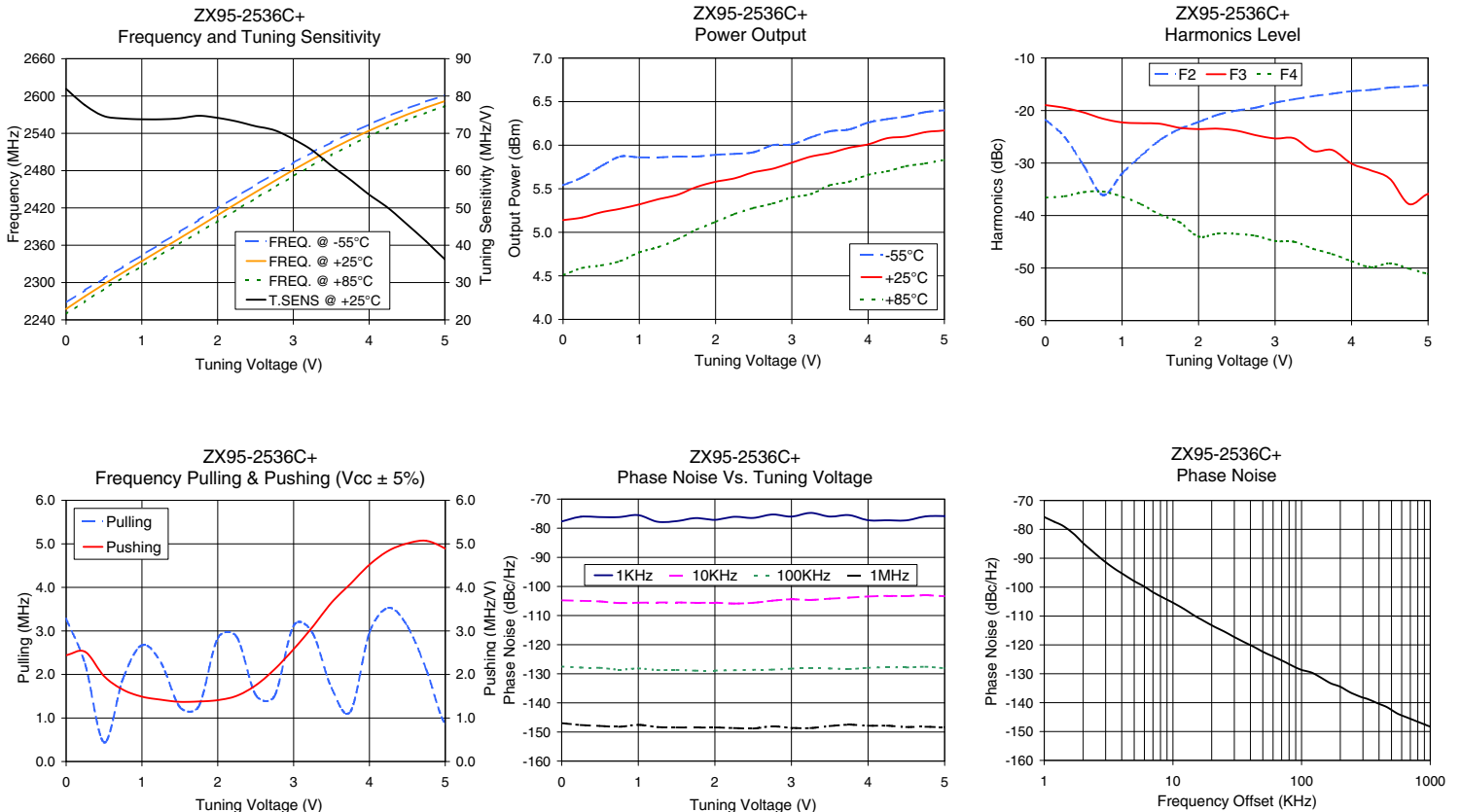
REV. A
M152326
EDR-9804F2
ZX95-2536C+
RAV
150923
Page 1 of 2

Performance Data & Curves*

ZX95-2536C+

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 2432 MHz (dBc/Hz)
		-55°C	+25°C	+85°C	-55°C	+25°C	+85°C		F2	F3	F4			1kHz	10kHz	100kHz	1MHz		
0.00	81.90	2267.6	2257.4	2249.2	5.54	5.14	4.51	36.63	-21.7	-19.0	-36.6	2.44	3.28	-77.7	-104.8	-127.5	-147.0	1.0	-75.73
0.50	74.61	2306.7	2297.3	2289.5	5.76	5.23	4.62	37.11	-30.5	-20.4	-35.5	1.96	0.44	-76.2	-105.1	-128.0	-147.9	2.0	-84.74
0.75	73.96	2325.2	2315.9	2308.2	5.87	5.27	4.67	37.29	-36.1	-21.6	-35.4	1.65	1.90	-76.2	-105.7	-128.6	-148.2	3.5	-93.54
1.00	73.76	2344.0	2334.4	2326.4	5.86	5.32	4.77	37.45	-32.0	-22.3	-36.4	1.49	2.67	-75.5	-105.6	-128.2	-147.6	6.0	-99.82
1.25	73.75	2362.7	2352.9	2344.6	5.86	5.38	4.83	37.57	-28.6	-22.4	-37.9	1.42	2.27	-77.8	-105.5	-128.7	-148.3	8.5	-103.77
1.50	74.01	2381.6	2371.3	2362.6	5.87	5.43	4.92	37.67	-25.6	-22.5	-39.9	1.37	1.25	-77.6	-105.5	-128.7	-148.4	10.0	-105.41
1.75	74.71	2400.7	2389.8	2380.6	5.87	5.52	5.03	37.73	-23.5	-23.3	-41.2	1.38	1.27	-76.5	-105.6	-128.9	-148.5	20.8	-113.60
2.00	74.15	2419.7	2408.5	2398.9	5.89	5.58	5.12	37.80	-22.2	-23.5	-44.0	1.41	2.83	-77.1	-105.6	-128.9	-148.4	35.5	-118.96
2.25	73.21	2438.5	2427.0	2417.2	5.90	5.62	5.21	37.87	-20.8	-23.5	-43.4	1.51	2.86	-76.1	-105.9	-128.8	-148.6	60.7	-124.10
2.50	71.91	2456.9	2445.3	2435.4	5.92	5.69	5.28	37.92	-20.0	-23.9	-43.5	1.75	1.53	-76.5	-105.6	-128.7	-148.8	85.2	-127.31
2.75	70.82	2475.0	2463.3	2453.3	6.00	5.73	5.33	37.95	-19.5	-24.7	-43.9	2.12	1.51	-75.3	-104.9	-128.6	-148.1	100.0	-128.68
3.00	68.45	2492.6	2481.0	2471.1	6.01	5.80	5.40	37.97	-18.5	-25.3	-44.9	2.58	3.12	-76.0	-104.4	-128.3	-148.6	142.9	-131.46
3.25	65.44	2509.4	2498.1	2488.3	6.09	5.87	5.44	37.99	-17.9	-25.3	-45.0	3.09	2.95	-74.7	-104.6	-128.1	-148.7	167.8	-133.29
3.50	61.36	2525.2	2514.5	2504.9	6.16	5.91	5.54	38.02	-17.3	-27.7	-46.3	3.65	1.69	-76.0	-104.2	-128.2	-148.0	200.6	-134.52
3.75	57.60	2540.3	2529.8	2520.7	6.18	5.97	5.58	38.06	-16.8	-27.5	-47.3	4.08	1.15	-75.5	-103.9	-128.4	-147.5	281.6	-137.84
4.00	53.56	2554.4	2544.2	2535.4	6.26	6.01	5.66	38.06	-16.3	-30.1	-48.7	4.52	2.96	-77.2	-103.4	-128.0	-147.9	330.7	-138.85
4.25	50.01	2567.6	2557.6	2549.0	6.30	6.08	5.70	38.06	-16.1	-31.4	-49.8	4.84	3.53	-77.3	-103.2	-127.7	-147.8	464.2	-141.63
4.50	45.62	2579.9	2570.1	2561.7	6.33	6.10	5.76	38.05	-15.6	-33.0	-49.1	5.01	3.11	-77.3	-103.3	-127.8	-148.3	554.9	-143.78
4.75	41.10	2591.0	2581.5	2573.3	6.38	6.15	5.79	38.05	-15.5	-37.8	-50.1	5.07	2.11	-76.0	-103.0	-127.6	-148.2	914.6	-147.64
5.00	36.26	2601.0	2591.8	2583.8	6.40	6.17	5.83	38.06	-15.2	-35.9	-51.1	4.89	0.87	-75.8	-103.4	-128.1	-148.4	1000.0	-148.33

*at 25°C unless mentioned otherwise



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