

Coaxial

# Voltage Controlled Oscillator

## ZX95-2868C+

Linear Tuning 2801 to 2868 MHz

### Features

- Low phase noise
- Low pushing
- Low pulling
- Protected by US patent 6,790,049



CASE STYLE: GB956

### Applications

- R&D
- LAB
- Instrumentation
- Wireless communication
- Point-to-point

Connectors	Model	Price	Qty.
SMA	ZX95-2868C-S+	\$40.95 ea.	(1-9)

**+ RoHS compliant in accordance with EU Directive (2002/95/EC)**

*The +Suffix has been added in order to identify RoHS Compliance. See our web site for RoHS Compliance methodologies and qualifications.*

### Electrical Specifications

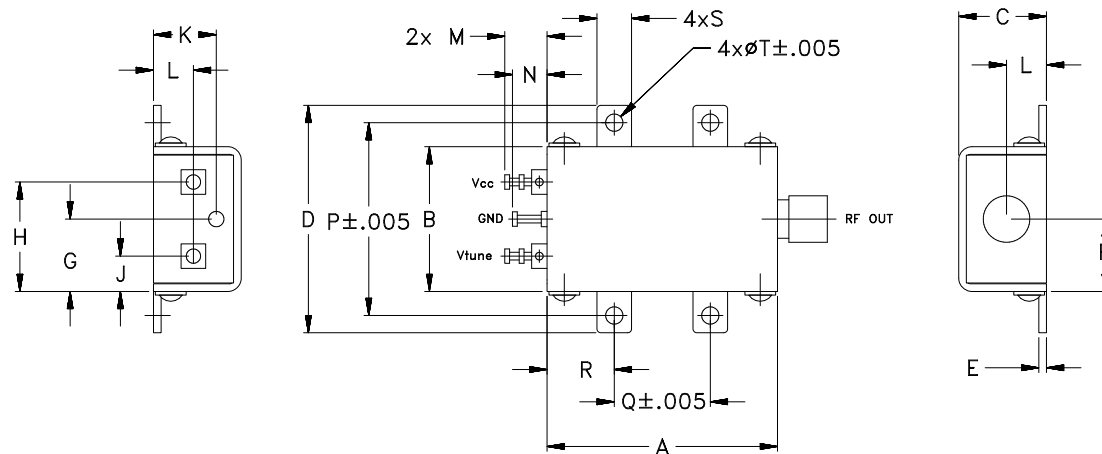
MODEL NO.	FREQ. (MHz)		POWER OUTPUT (dBm)	PHASE NOISE dBc/Hz SSB at offset frequencies, kHz				TUNING				NON HARMONIC SPURIOUS (dBc)	HARMONICS (dBc)		PULLING pk-pk @ 12 dBr (MHz)	PUSHING (MHz/V)	DC OPERATING POWER		
	Min.	Max.		Typ.	1	10	100	1000	VOLTAGE RANGE (V)	SENSI-TIVITY (MHz/V)	PORT CAP (pF)		3 dB MODULATION BANDWIDTH (MHz)	Typ.			Typ.	Max.	Typ.
ZX95-2868C+	2801	2868	+5.5	-78	-104	-125	-144	1	12	19 - 22	18	190	-90	-22	-13	1	0.5	8	35

### Maximum Ratings

Operating Temperature	-55°C to 85°C
Storage Temperature	-55°C to 100°C
Absolute Max. Supply Voltage (Vcc)	10V
Absolute Max. Tuning Voltage (Vtune)	14V
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	.45	.57	.18	.33	.21	.22	.18	1.00	.50	.35	.18	.106	GRAM
30.48	19.05	11.68	29.97	1.02	9.65	11.43	14.48	4.57	8.38	5.33	5.59	4.57	25.40	12.70	8.89	4.57	2.69	35.0



For detailed performance specs & shopping online see web site

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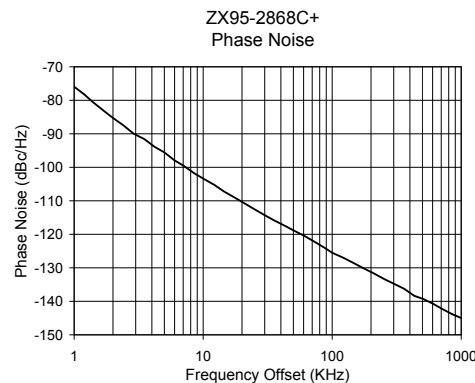
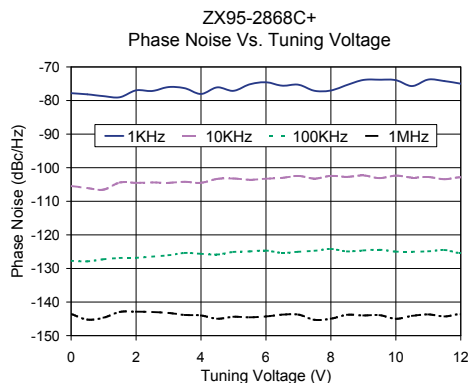
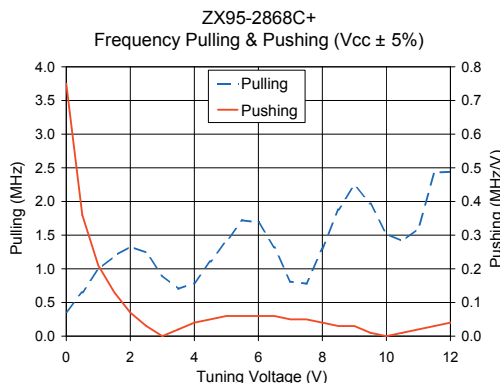
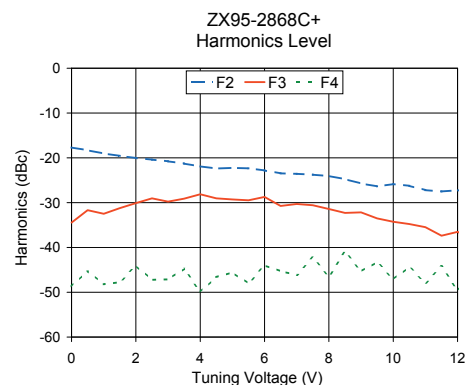
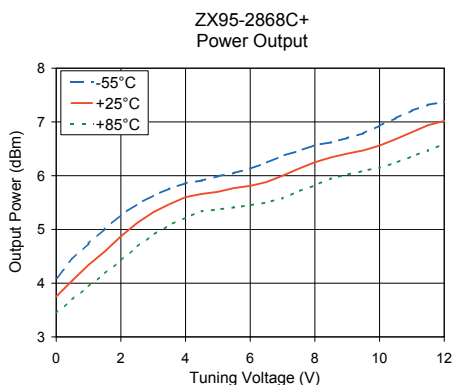
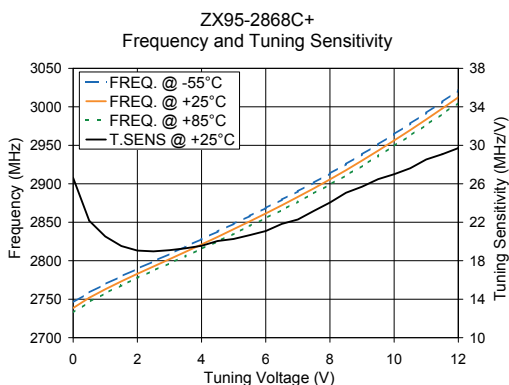
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EDR-6569/1F2  
ZX95-2868C+  
RAV  
090902  
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# Performance Data & Curves\*

# ZX95-2868C+

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 2835 MHz (dBc/Hz)
		-55°C	+25°C	+85°C	-55°C	+25°C	+85°C		F2	F3	F4			1kHz	10kHz	100kHz	1MHz		
0.00	26.61	2745.9	2738.6	2732.6	4.09	3.75	3.44	29.04	-17.7	-34.5	-48.7	0.75	0.36	-77.8	-105.4	-127.7	-143.5	1.0	-75.94
0.50	22.16	2758.6	2751.9	2746.4	4.45	4.05	3.70	29.14	-18.3	-31.7	-45.2	0.36	0.65	-78.2	-106.1	-127.9	-145.2	2.0	-85.27
1.00	20.52	2769.6	2763.0	2757.7	4.74	4.34	3.94	29.19	-19.0	-32.5	-48.2	0.21	0.99	-78.7	-106.5	-127.3	-144.7	3.5	-91.58
1.50	19.53	2779.8	2773.2	2767.9	5.01	4.59	4.18	29.22	-19.6	-31.2	-47.8	0.13	1.19	-79.0	-104.4	-126.9	-142.9	6.0	-97.94
2.00	19.06	2789.5	2783.0	2777.7	5.27	4.87	4.42	29.23	-20.0	-30.1	-44.1	0.07	1.33	-77.0	-104.5	-126.8	-142.9	8.5	-101.75
2.50	18.98	2799.1	2792.5	2787.2	5.47	5.12	4.68	29.23	-20.4	-29.0	-47.2	0.03	1.24	-77.2	-104.4	-126.5	-143.0	10.0	-103.35
3.00	19.10	2808.7	2802.0	2796.6	5.63	5.32	4.90	29.21	-20.8	-29.8	-47.1	0.00	0.90	-76.0	-104.5	-126.1	-143.3	20.8	-110.70
3.50	19.29	2818.3	2811.5	2806.0	5.76	5.47	5.08	29.20	-21.3	-29.1	-44.8	0.02	0.70	-76.3	-104.2	-125.4	-143.9	35.5	-115.84
4.00	19.56	2828.1	2821.2	2815.5	5.86	5.60	5.22	29.18	-21.9	-28.1	-49.9	0.04	0.79	-78.1	-104.5	-125.7	-144.0	60.7	-120.45
4.50	20.05	2838.0	2831.0	2825.2	5.91	5.66	5.34	29.16	-22.4	-29.0	-46.6	0.05	1.11	-76.1	-103.3	-125.8	-145.0	86.7	-123.97
5.00	20.26	2848.0	2841.0	2835.1	5.99	5.70	5.37	29.14	-22.2	-29.3	-45.6	0.06	1.41	-77.1	-103.2	-125.1	-144.4	100.0	-125.51
5.50	20.67	2858.1	2851.1	2845.1	6.05	5.77	5.41	29.12	-22.4	-29.5	-48.0	0.06	1.72	-75.2	-103.6	-124.9	-144.6	148.1	-128.66
6.00	21.08	2868.5	2861.5	2855.4	6.13	5.81	5.45	29.09	-22.8	-28.7	-44.0	0.06	1.69	-74.6	-103.3	-124.7	-144.3	177.0	-130.23
6.50	21.83	2879.2	2872.0	2865.9	6.24	5.88	5.50	29.06	-23.5	-30.7	-45.3	0.06	1.32	-75.6	-103.0	-125.4	-143.8	211.6	-131.73
7.00	22.29	2890.2	2882.9	2876.6	6.37	6.00	5.58	29.02	-23.6	-30.3	-46.1	0.05	0.81	-75.3	-102.5	-125.0	-143.7	302.4	-134.81
8.00	24.05	2913.3	2905.7	2899.0	6.57	6.25	5.82	28.92	-24.1	-31.4	-46.5	0.04	1.30	-77.0	-102.4	-124.2	-145.0	361.5	-136.26
9.00	25.70	2938.2	2930.2	2923.3	6.70	6.41	6.02	28.82	-25.7	-32.2	-45.3	0.03	2.24	-73.9	-102.3	-124.6	-144.0	507.5	-139.31
10.00	26.99	2964.5	2956.3	2949.3	6.93	6.56	6.15	28.73	-25.9	-34.3	-47.1	0.00	1.52	-73.9	-102.4	-125.0	-145.0	606.7	-140.74
11.00	28.53	2992.1	2983.6	2976.6	7.21	6.81	6.36	28.61	-27.2	-35.5	-48.0	0.02	1.60	-73.8	-102.8	-124.9	-143.7	851.6	-143.84
12.00	29.71	3021.2	3012.4	3005.2	7.37	7.02	6.59	28.48	-27.3	-36.5	-49.6	0.04	2.44	-75.0	-102.8	-125.5	-143.6	1000.0	-144.98

\*at 25°C unless mentioned otherwise



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