

Coaxial

# Voltage Controlled Oscillator

## ZX95-2805C+

5V Tuning for PLL IC's 2795 to 2805 MHz

### Features

- low phase noise
- 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	Price	Qty.
SMA	ZX95-2805C-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

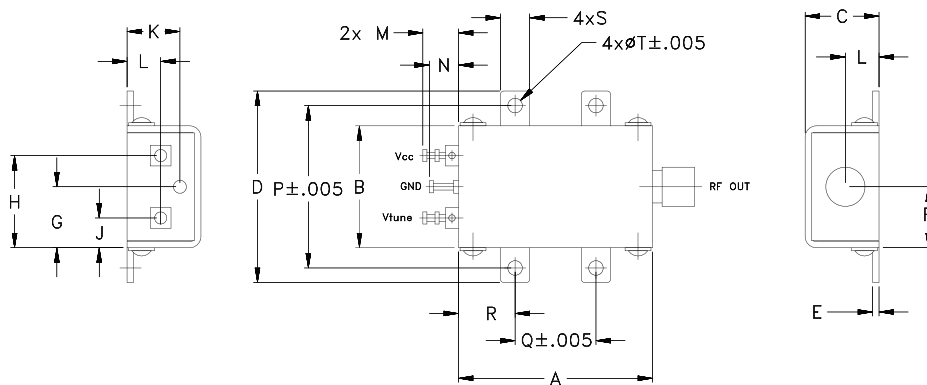
MODEL NO.	FREQ. (MHz)		POWER OUTPUT (dBm)	PHASE NOISE dBc/Hz SSB at offset frequencies, kHz				TUNING					NON HARMONIC SPURIOUS (dBc)	HARMONICS (dBc)		PULLING pk-pk @ 12 dB (MHz)	PUSHING (MHz/V)	DC OPERATING POWER	
	Min.	Max.		Typ.				VOLTAGE RANGE (V)	SENSI- TIVITY (MHz/V)	PORT CAP (pF)	3 dB MODULATION BANDWIDTH (MHz)	Typ.		Max.	Vcc (volts)			Current (mA)	
				1	10	100	1000	Min.	Max.	Typ.	Typ.	Typ.		Typ.	Typ.			Max.	
ZX95-2805C+	2795	2805	+2.0	-81	-108	-129	-149	0.5	5	33	18	115	-90	-19	-10	1.5	0.5	5	36

### 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 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



For detailed performance specs & shopping online see web site

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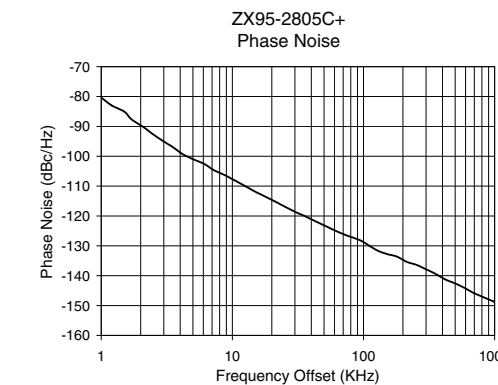
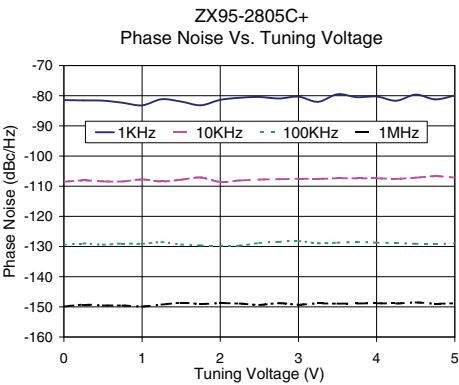
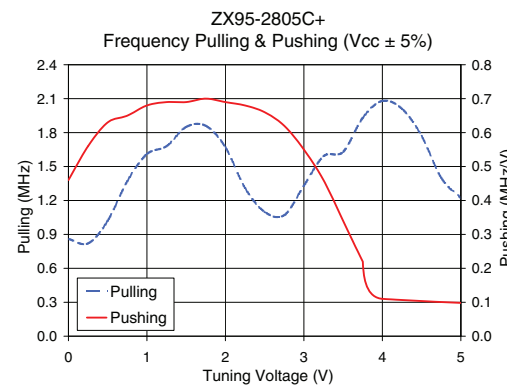
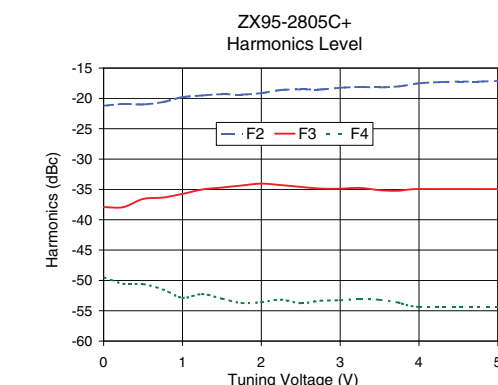
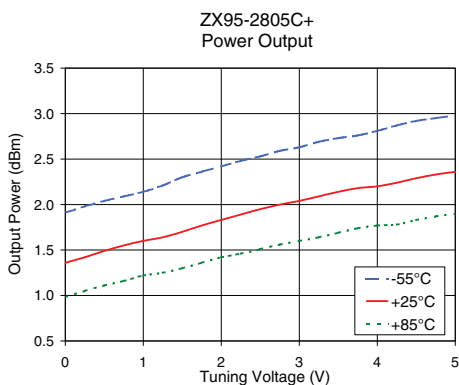
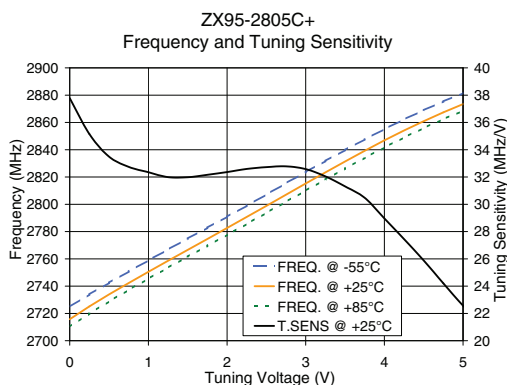
REV. OR  
M126500  
EDR-10068F2  
ZX95-2805C+  
RAV  
120904  
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# Performance Data & Curves\*

# ZX95-2805C+

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 2800 MHz (dBc/Hz)
		-55°C	+25°C	+85°C	-55°C	+25°C	+85°C		F2	F3	F4			1kHz	10kHz	100kHz	1MHz		
0.00	37.78	2724.9	2715.7	2710.2	1.91	1.36	0.98	28.72	-21.2	-37.9	-49.5	0.46	0.86	-81.5	-108.5	-129.4	-149.9	1.0	-80.34
0.25	35.15	2733.9	2725.1	2719.9	1.98	1.42	1.05	28.73	-20.9	-37.9	-50.6	0.56	0.82	-81.5	-108.1	-129.0	-149.3	2.1	-90.25
0.50	33.49	2742.5	2733.9	2728.8	2.04	1.49	1.11	28.74	-21.0	-36.6	-50.6	0.63	1.02	-81.6	-108.4	-129.4	-149.5	3.5	-96.90
0.75	32.74	2750.8	2742.3	2737.3	2.09	1.55	1.16	28.75	-20.6	-36.3	-51.5	0.65	1.37	-82.3	-108.4	-129.0	-149.6	6.1	-102.57
1.00	32.35	2758.9	2750.5	2745.5	2.14	1.60	1.22	28.75	-19.8	-35.7	-52.9	0.68	1.61	-83.2	-107.8	-129.1	-149.9	8.7	-106.24
1.25	31.99	2766.9	2758.6	2753.6	2.21	1.64	1.25	28.76	-19.5	-35.0	-52.3	0.69	1.68	-81.2	-108.4	-128.5	-149.3	10.0	-107.67
1.50	31.98	2774.8	2766.6	2761.6	2.30	1.70	1.30	28.77	-19.3	-34.7	-53.0	0.69	1.85	-81.9	-107.8	-129.3	-148.7	12.4	-109.89
1.75	32.16	2782.8	2774.6	2769.6	2.36	1.77	1.36	28.77	-19.4	-34.4	-53.7	0.70	1.86	-83.2	-107.1	-129.6	-149.0	21.1	-115.12
2.00	32.36	2790.9	2782.6	2777.6	2.42	1.83	1.42	28.77	-19.1	-34.0	-53.6	0.69	1.67	-81.4	-108.6	-129.7	-148.8	36.1	-120.13
2.25	32.59	2799.0	2790.7	2785.6	2.48	1.89	1.46	28.78	-18.6	-34.3	-53.2	0.68	1.31	-80.7	-108.1	-129.7	-148.9	61.7	-125.04
2.50	32.73	2807.2	2798.9	2793.7	2.53	1.95	1.51	28.78	-18.5	-34.6	-53.8	0.66	1.10	-80.4	-107.8	-128.8	-149.4	100.0	-128.74
2.75	32.78	2815.4	2807.0	2801.9	2.59	2.00	1.56	28.78	-18.5	-34.9	-53.4	0.62	1.07	-80.9	-107.7	-128.5	-148.8	150.5	-132.73
3.00	32.58	2823.6	2815.2	2810.0	2.63	2.04	1.60	28.78	-18.3	-34.9	-53.3	0.55	1.33	-80.3	-107.5	-128.2	-149.2	179.9	-133.62
3.25	32.05	2831.8	2823.4	2818.2	2.69	2.09	1.64	28.77	-18.1	-34.8	-53.1	0.46	1.59	-82.0	-107.6	-128.9	-148.9	215.0	-135.42
3.50	31.31	2839.8	2831.4	2826.2	2.73	2.14	1.69	28.77	-18.2	-35.1	-53.2	0.34	1.63	-79.5	-107.4	-128.7	-148.9	252.5	-136.34
3.75	30.47	2847.6	2839.2	2834.0	2.76	2.18	1.74	28.77	-18.0	-35.2	-53.7	0.22	1.93	-80.5	-107.4	-128.5	-148.9	497.5	-142.55
4.00	28.96	2855.1	2846.8	2841.6	2.81	2.20	1.77	28.77	-17.5	-34.9	-54.3	0.11	2.08	-80.3	-107.4	-128.7	-148.8	594.7	-144.18
4.50	25.88	2869.0	2860.9	2855.9	2.92	2.29	1.83	28.77	-17.2	-35.6	-54.2	0.05	1.77	-79.6	-107.2	-129.1	-148.6	698.3	-145.86
4.75	24.20	2875.4	2867.4	2862.4	2.95	2.33	1.87	28.77	-17.2	-35.6	-54.0	0.06	1.40	-81.2	-106.7	-129.2	-149.0	980.1	-148.61
5.00	22.56	2881.4	2873.5	2868.5	2.98	2.36	1.90	28.77	-17.1	-35.5	-53.9	0.04	1.22	-79.9	-107.1	-129.0	-148.8	1000.0	-148.86

\*at 25°C unless mentioned otherwise



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