

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 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

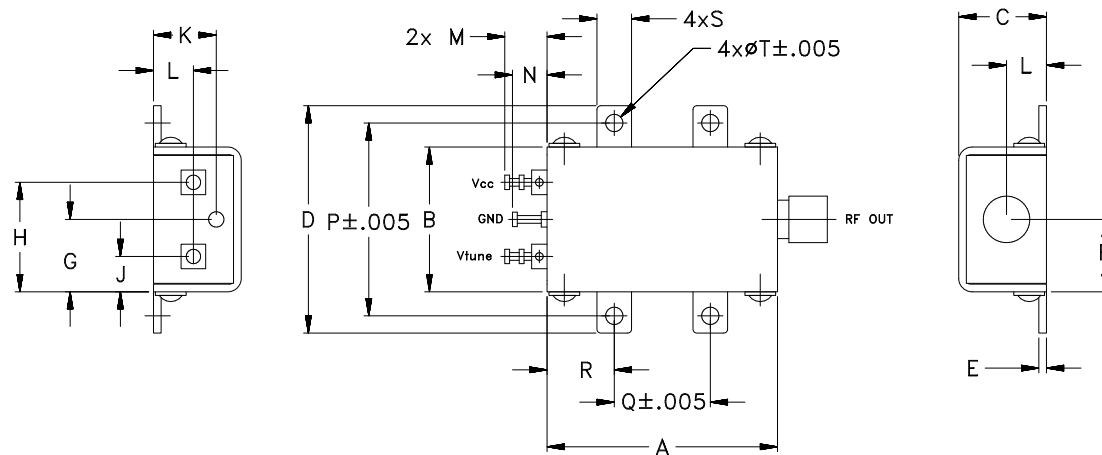
MODEL NO.	FREQ. (MHz)		POWER OUTPUT (dBm)	PHASE NOISE				TUNING					NON HARMONIC SPURIOUS (dBc)		HARMONICS (dBc)		PULLING pk-pk @ 12 dB (MHz)	PUSHING (MHz/V)	DC OPERATING POWER		
				dBc/Hz SSB at offset frequencies, kHz				VOLTAGE RANGE (V)	SENSI-TIVITY (MHz/V)	PORT CAP (pF)	3 dB MODULATION BANDWIDTH (MHz)	Typ.	Typ.	Typ.	Typ.	Typ.			Typ.	Vcc (volts)	Current (mA)
				Typ.	1	10	100														
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	.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



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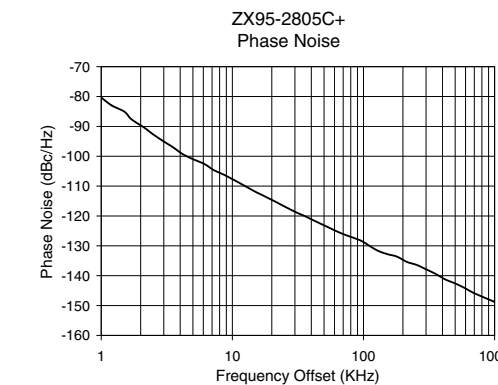
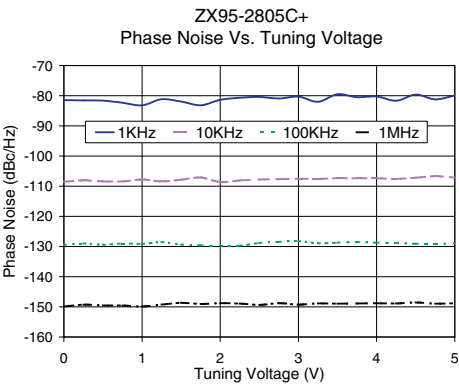
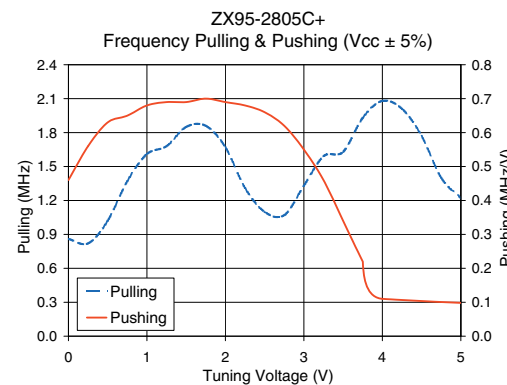
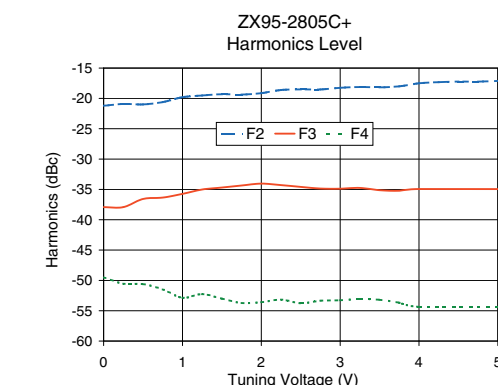
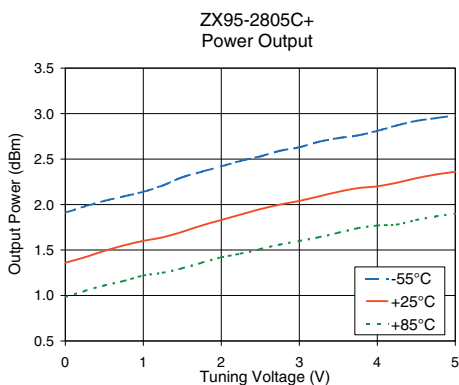
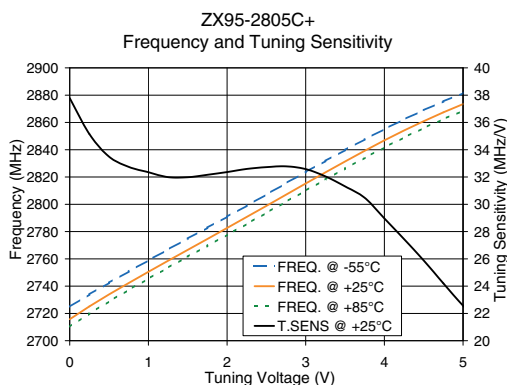
REV. OR
M126500
EDR-10068F2
ZX95-2805C+
RAV
100308
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Performance Data & Curves*

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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