

Coaxial

Voltage Controlled Oscillator

ZX95-2795+

Linear Tuning 2600 to 2795 MHz

Features

- low phase noise
- low pulling
- low pushing
- aqueous washable

Applications

- r & d
- lab
- instrumentation
- wireless communications
- radio location



CASE STYLE: GB956

Connectors	Model
SMA	ZX95-2795-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 Typ.				TUNING					NON HARMONIC SPURIOUS (dBc)	HARMONICS (dBc)		PULLING pk-pk @12 dBr (MHz)	PUSHING (MHz/V)	DC OPERATING POWER Vcc Current (volts) (mA)	
								VOLTAGE RANGE (V)	SENSI- TIVITY (MHz/V)	PORT CAP (pF)	3 dB MODULATION BANDWIDTH (MHz)								
	Min.	Max.	Typ.	1	10	100	1000	Min.	Max.	Typ.	Typ.	Typ.	Typ.	Typ.	Max.	Typ.	Typ.	Max.	
ZX95-2795+	2600	2795	+5	-76	-99	-120	-140	0.5	10	35-39	40	250	-90	-32	-22	1.5	4	5	42

Maximum Ratings

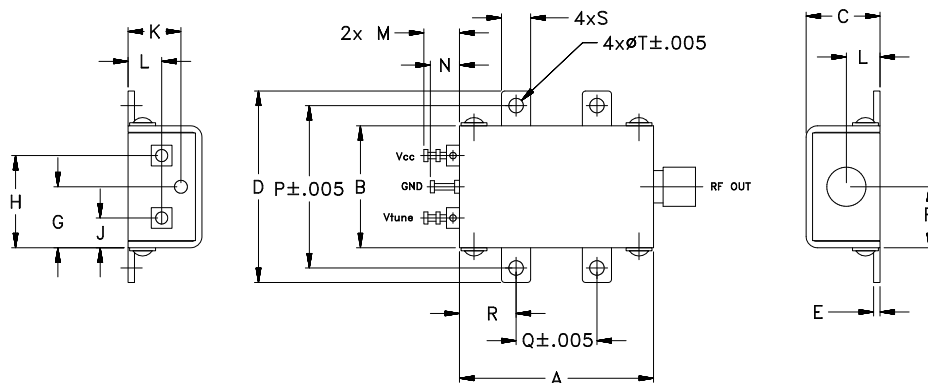
Operating Temperature	-55°C to 85°C
Storage Temperature	-55°C to 100°C
Absolute Max. Supply Voltage (Vcc)	7V
Absolute Max. Tuning Voltage (Vtune)	12V
All specifications	50 ohm system

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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 B. Electrical specifications and performance data contained in this specification document are based on Mini-Circuit's applicable established test performance criteria and measurement instructions.
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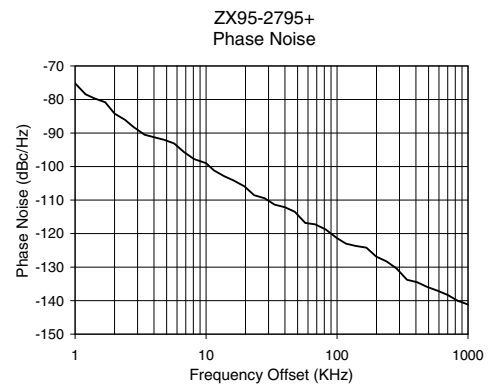
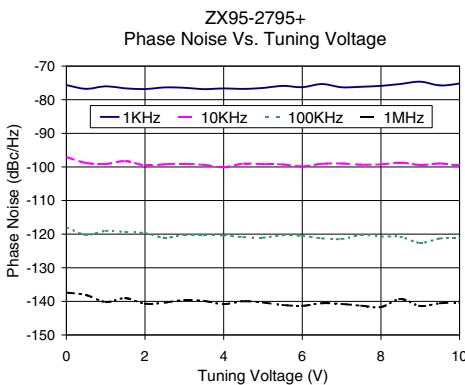
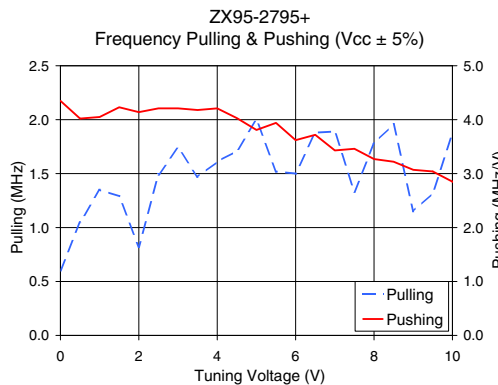
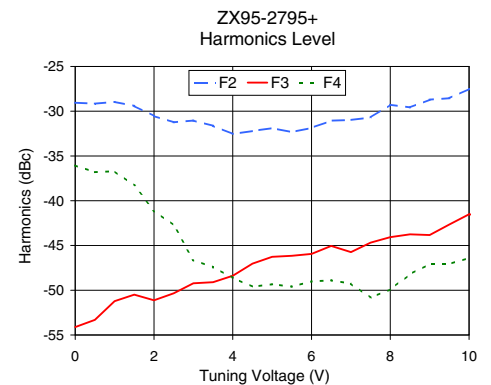
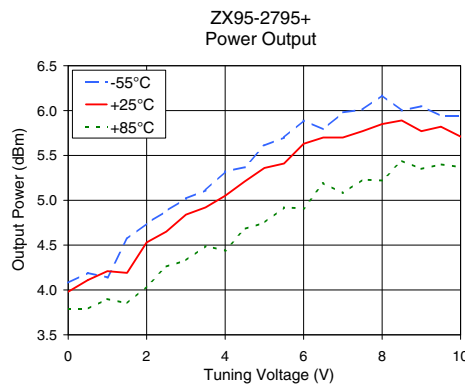
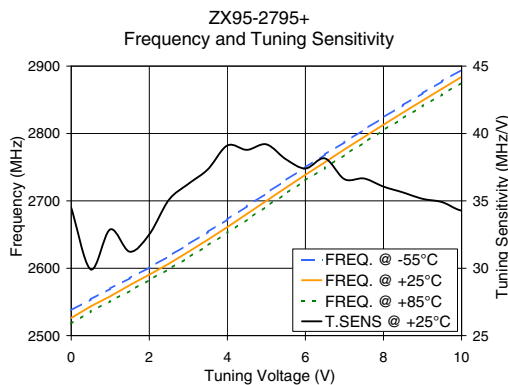
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ZX95-2795+
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Performance Data & Curves*

ZX95-2795+

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 2725 MHz (dBc/Hz)
		-55°C	+25°C	+85°C	-55°C	+25°C	+85°C		F2	F3	F4			1kHz	10kHz	100kHz	1MHz		
0.00	34.49	2537.6	2526.2	2517.7	4.08	3.98	3.79	35.30	-29.1	-54.1	-36.1	4.35	0.60	-75.7	-97.1	-118.0	-137.4	1.0	-75.17
0.50	29.92	2553.8	2543.4	2536.0	4.19	4.11	3.79	35.40	-29.2	-53.3	-36.8	4.02	1.05	-76.8	-98.8	-120.2	-138.1	2.0	-84.22
1.00	32.88	2569.7	2558.4	2551.1	4.14	4.21	3.90	35.42	-29.0	-51.2	-36.7	4.05	1.35	-76.0	-99.1	-119.0	-140.2	3.4	-90.53
1.50	31.23	2585.3	2574.8	2566.3	4.57	4.19	3.85	35.45	-29.4	-50.5	-38.3	4.23	1.29	-76.6	-98.3	-119.4	-139.0	5.7	-93.12
2.00	32.51	2601.2	2590.5	2582.7	4.74	4.53	4.04	35.53	-30.5	-51.1	-41.1	4.14	0.82	-76.8	-99.6	-119.7	-140.7	8.1	-97.76
2.50	35.07	2617.8	2606.7	2598.7	4.88	4.65	4.26	35.57	-31.2	-50.3	-42.7	4.21	1.49	-76.3	-99.2	-121.1	-140.4	10.0	-99.00
3.00	36.26	2635.4	2624.2	2615.9	5.02	4.84	4.33	35.62	-31.0	-49.2	-46.6	4.21	1.74	-76.5	-99.1	-120.3	-139.6	19.6	-105.90
3.50	37.34	2653.8	2642.4	2634.0	5.11	4.92	4.49	35.67	-31.6	-49.1	-47.4	4.18	1.47	-76.9	-99.4	-120.4	-139.9	33.3	-111.35
4.00	39.11	2672.5	2661.0	2652.8	5.32	5.05	4.44	35.72	-32.5	-48.4	-48.6	4.21	1.61	-76.7	-100.1	-120.4	-140.8	57.2	-116.82
4.50	38.79	2692.1	2680.6	2672.0	5.37	5.21	4.68	35.77	-32.2	-47.0	-49.6	4.03	1.71	-76.8	-99.0	-120.9	-140.0	81.8	-118.75
5.00	39.19	2711.3	2700.0	2691.7	5.61	5.36	4.75	35.85	-31.9	-46.3	-49.3	3.81	2.00	-76.5	-99.2	-121.1	-140.4	100.0	-121.36
5.50	38.08	2730.8	2719.6	2710.8	5.70	5.41	4.92	35.88	-32.3	-46.2	-49.6	3.94	1.52	-75.9	-99.3	-120.3	-141.1	139.3	-123.69
6.00	37.40	2749.6	2738.6	2730.5	5.89	5.63	4.91	35.98	-31.9	-45.9	-49.0	3.62	1.50	-76.3	-99.8	-120.5	-141.3	167.3	-124.19
6.50	38.15	2768.8	2757.3	2748.9	5.79	5.70	5.19	35.99	-31.1	-45.1	-48.9	3.72	1.88	-75.3	-99.1	-121.3	-140.6	199.2	-126.87
7.00	36.61	2787.3	2776.4	2768.1	5.98	5.70	5.08	36.08	-31.0	-45.7	-49.3	3.43	1.89	-76.3	-99.0	-121.4	-140.8	284.8	-130.41
7.50	36.66	2805.7	2794.7	2786.4	6.01	5.77	5.23	36.13	-30.7	-44.7	-50.8	3.46	1.33	-76.2	-99.3	-120.3	-141.3	342.1	-133.78
8.00	36.06	2823.9	2813.0	2804.9	6.17	5.85	5.22	36.21	-29.3	-44.1	-49.9	3.27	1.78	-75.9	-99.2	-120.7	-141.7	489.1	-135.93
9.00	35.15	2859.6	2848.9	2840.6	6.05	5.77	5.35	36.36	-28.7	-43.8	-47.1	3.07	1.15	-74.6	-99.4	-122.6	-141.4	582.3	-136.99
9.50	34.90	2877.5	2866.5	2857.9	5.94	5.82	5.40	36.43	-28.5	-42.7	-47.1	3.04	1.32	-75.7	-99.0	-121.3	-140.6	832.6	-140.02
10.00	34.28	2894.7	2883.9	2875.4	5.94	5.71	5.37	36.53	-27.5	-41.5	-46.4	2.85	1.87	-75.2	-99.4	-121.2	-140.4	1000.0	-141.15

*at 25°C unless mentioned otherwise



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