

Coaxial

Voltage Controlled Oscillator

ZX95-3970+

5V Tuning for PLL IC's 3790 to 3970 MHz

Features

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

Applications

- r & d
- lab
- instrumentation
- wireless communication
- point-to-point radio
- satellite systems



CASE STYLE: GB956

Connectors	Model	Price	Qty.
SMA	ZX95-3970-S+	\$44.95 ea.	(1-9)

+RoHS Compliant

The +Suffix identifies RoHS Compliance. See our web site for RoHS Compliance methodologies and qualifications

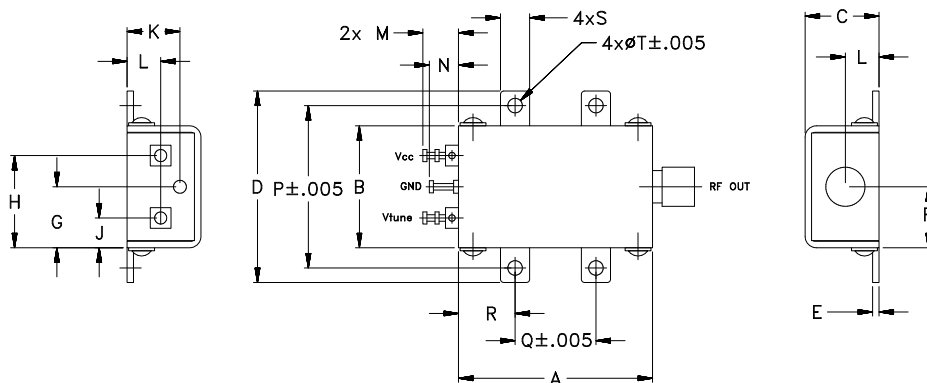
Electrical Specifications

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)	6V
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

Notes

- A. Performance and quality attributes and conditions not expressly stated in this specification document are intended to be excluded and do not form a part of this specification document.
 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.
 C. The parts covered by this specification document are subject to Mini-Circuits standard limited warranty and terms and conditions (collectively, "Standard Terms"); Purchasers of this part are entitled to the rights and benefits contained therein. For a full statement of the Standard Terms and the exclusive rights and remedies thereunder, please visit Mini-Circuits' website at www.minicircuits.com/MCLStore/terms.jsp



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Performance Data & Curves*

ZX95-3970+

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 3880 MHz (dBc/Hz)
		-55°C	+25°C	+85°C	-55°C	+25°C	+85°C		F2	F3	F4			1kHz	10kHz	100kHz	1MHz		
0.00	102.01	3650.0	3634.4	3620.6	3.18	3.30	3.16	26.22	-28.9	-23.1	-37.7	5.33	1.38	-69.77	-99.7	-123.3	-143.3	1.0	-70.21
0.50	89.92	3697.8	3683.1	3670.9	3.44	3.43	3.11	26.22	-27.8	-24.2	-40.0	3.38	3.28	-70.62	-100.7	-123.9	-144.4	2.6	-83.03
0.75	89.56	3720.6	3705.5	3693.0	3.32	3.50	3.24	26.17	-28.4	-22.2	-43.1	3.15	2.88	-72.49	-100.4	-123.3	-143.3	5.2	-90.84
1.00	84.14	3741.9	3727.9	3715.4	3.29	3.37	3.21	26.17	-27.8	-22.5	-44.8	2.79	0.17	-70.94	-99.9	-123.4	-144.1	10.0	-98.01
1.25	82.15	3762.7	3749.0	3736.9	3.43	3.39	3.11	26.17	-28.4	-23.4	-45.4	2.54	2.70	-71.09	-99.8	-123.7	-144.3	16.4	-103.70
1.50	83.04	3783.8	3769.5	3757.4	3.48	3.50	3.17	26.14	-28.1	-21.3	-46.9	2.42	3.77	-72.76	-99.3	-123.3	-143.8	10.0	-98.01
1.75	82.03	3804.4	3790.3	3777.9	3.43	3.52	3.24	26.10	-29.0	-21.8	-48.6	2.32	2.70	-70.65	-99.0	-122.8	-143.3	52.4	-115.85
2.00	80.73	3824.8	3810.8	3798.4	3.35	3.48	3.22	26.08	-28.3	-23.4	-47.8	2.17	0.44	-70.61	-98.9	-122.7	-143.1	100.0	-122.04
2.25	78.98	3844.8	3830.9	3818.5	3.27	3.41	3.14	26.07	-29.0	-21.9	-48.8	2.10	2.74	-70.99	-98.8	-122.7	-143.7	210.9	-129.60
2.50	75.92	3864.2	3850.7	3838.3	3.22	3.32	3.05	26.04	-28.3	-21.1	-51.7	2.08	3.80	-69.30	-98.6	-122.5	-143.5	341.4	-133.27
2.75	75.98	3883.5	3869.7	3857.6	3.19	3.31	2.96	26.02	-28.9	-24.0	-50.8	2.12	2.84	-70.46	-98.3	-122.7	-143.1	100.0	-122.04
3.00	71.40	3902.2	3888.7	3876.2	3.13	3.26	2.93	26.00	-28.4	-21.8	-50.9	2.14	0.19	-69.75	-98.1	-122.1	-142.8	709.5	-140.02
3.25	68.78	3919.8	3906.5	3894.6	3.14	3.19	2.85	25.98	-29.3	-23.6	-55.4	2.28	3.03	-68.76	-98.0	-122.1	-143.0	1000.0	-142.77
3.50	64.19	3936.9	3923.7	3911.7	3.17	3.23	2.82	25.96	-28.7	-23.5	-51.5	2.28	4.08	-69.35	-98.3	-122.3	-142.9	1148.5	-144.14
3.75	62.06	3953.2	3939.8	3928.1	3.10	3.22	2.84	25.93	-28.1	-22.6	-52.4	2.44	3.54	-70.88	-98.2	-121.9	-142.4	1859.3	-148.10
4.00	55.74	3968.1	3955.3	3943.3	3.05	3.19	2.80	25.92	-29.4	-23.0	-51.2	2.40	1.85	-68.73	-98.3	-121.8	-142.3	2344.6	-149.78
4.25	51.10	3981.7	3969.2	3957.8	2.99	3.13	2.76	25.90	-27.9	-25.2	-53.4	2.41	0.63	-69.54	-98.1	-121.7	-142.2	3795.6	-153.36
4.50	45.44	3994.2	3982.0	3970.7	3.00	3.11	2.70	25.89	-28.1	-22.5	-50.9	2.28	2.77	-70.45	-98.0	-121.6	-142.4	4872.5	-154.85
4.75	40.99	4005.4	3993.3	3982.3	2.97	3.09	2.63	25.88	-29.1	-25.3	-52.3	2.12	3.95	-70.65	-98.4	-121.6	-142.1	9946.9	-154.72
5.00	36.69	4015.7	4003.6	3992.7	2.91	3.06	2.63	25.87	-28.7	-23.0	-50.6	1.96	4.43	-70.43	-97.9	-121.4	-142.2	1000.0	-142.77

*at 25°C unless mentioned otherwise

