

Coaxial

# Voltage Controlled Oscillator

## ZX95-3730C+

5V Tuning for PLL IC's 3575 to 3730 MHz

### Features

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



CASE STYLE: GB956

### Applications

- R&D
- LAB
- Instrumentation
- Wireless communications
- Industrial communications

Connectors	Model	Price	Qty.
SMA	ZX95-3730C-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

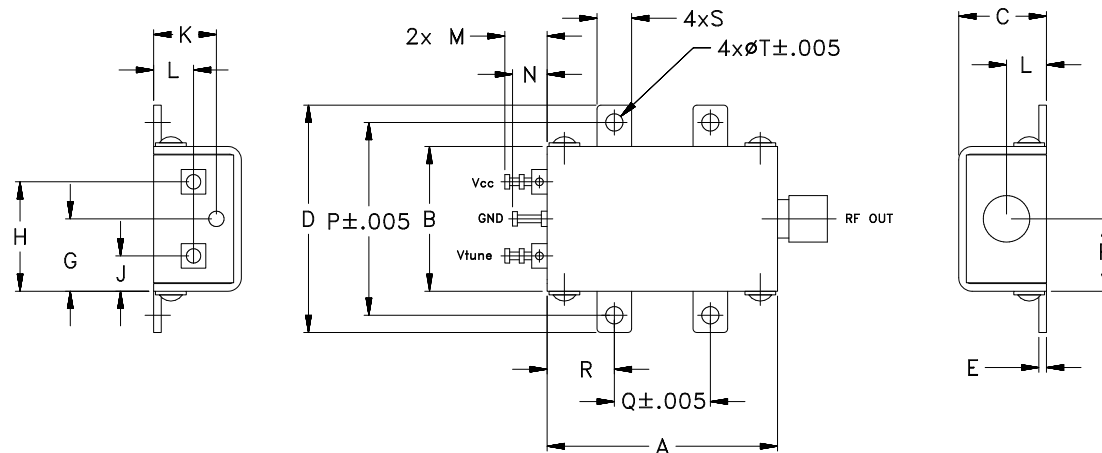
MODEL NO.	FREQ. (MHz)		POWER OUTPUT (dBm)	PHASE NOISE dBc/Hz SSB at offset frequencies, kHz				TUNING				NON HARMONIC SPURIOUS (dBc)	HARMONICS (dBc)		PULLING pk-pk @ 12 dB (MHz)	PUSHING (MHz/V)	DC OPERATING POWER		
	Min.	Max.		Typ.	1	10	100	1000	VOLTAGE RANGE (V)	SENSITIVITY (MHz/V)	PORT CAP (pF)		3 dB MODULATION BANDWIDTH (MHz)	Typ.			Typ.	Max.	Typ.
ZX95-3730C+	3575	3730	+2.2	-77	-104	-126	-146	0.5	4.5	52 - 68	15	115	-90	-16	-10	1.8	0.3	5	43

### Maximum Ratings

Operating Temperature	-55°C to 85°C
Storage Temperature	-55°C to 100°C
Absolute Max. Supply Voltage (Vcc)	6.0V
Absolute Max. Tuning Voltage (Vtune)	6.5V
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



ISO 9001 ISO 14001 AS 9100 CERTIFIED

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IF/RF MICROWAVE COMPONENTS

For detailed performance specs & shopping online see web site

**Notes:** 1. Performance and quality attributes and conditions not expressly stated in this specification sheet are intended to be excluded and do not form a part of this specification sheet. 2. Electrical specifications and performance data contained herein are based on Mini-Circuit's applicable established test performance criteria and measurement instructions. 3. The parts covered by this specification sheet 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](http://www.minicircuits.com/MCLStore/terms.jsp).

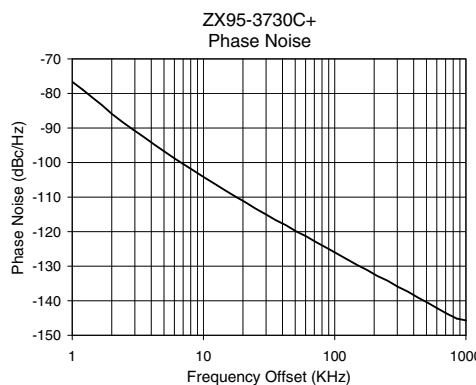
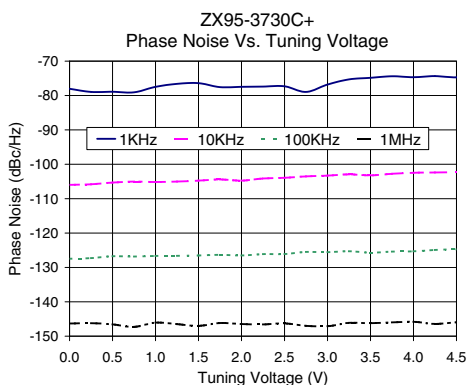
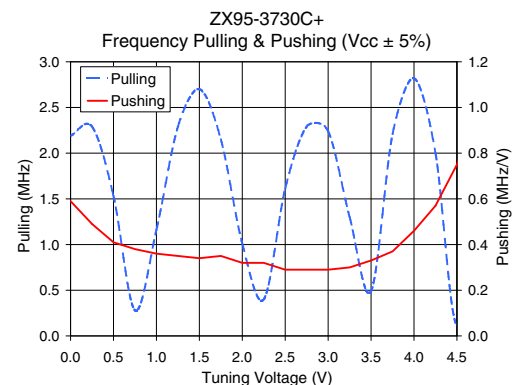
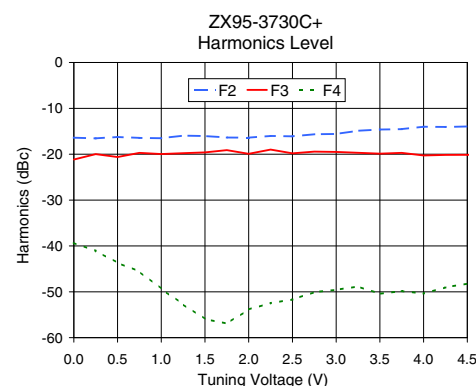
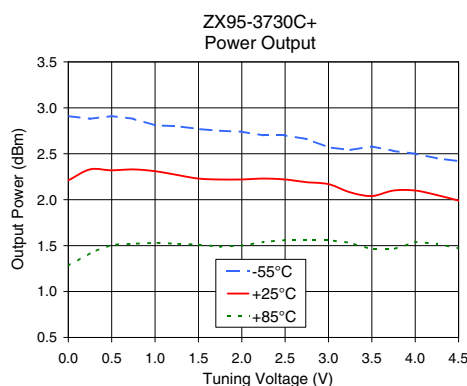
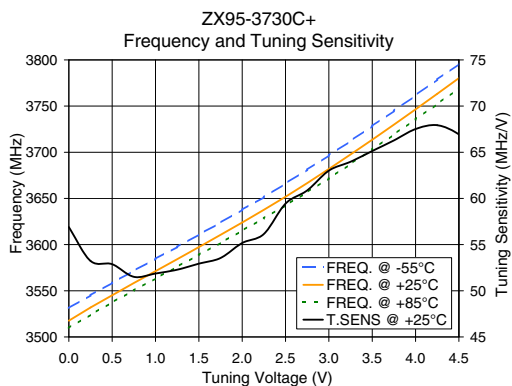
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M120336  
EDR-9269/1F2  
ZX95-3730C+  
RAV  
090903  
Page 1 of 2

# Performance Data & Curves\*

# ZX95-3730C+

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 3653 MHz (dBc/Hz)
		-55°C	+25°C	+85°C	-55°C	+25°C	+85°C		F2	F3	F4			1kHz	10kHz	100kHz	1MHz		
0.00	56.90	3531.3	3517.6	3509.8	2.91	2.21	1.28	37.58	-16.4	-21.2	-39.4	0.59	2.19	-78.0	-106.0	-127.5	-146.3	1.0	-76.62
0.25	53.23	3545.1	3531.9	3524.1	2.88	2.33	1.42	37.60	-16.6	-20.0	-41.1	0.49	2.29	-79.0	-105.8	-127.3	-146.2	2.0	-85.89
0.50	52.87	3558.6	3545.2	3537.5	2.91	2.32	1.51	37.60	-16.2	-20.6	-43.7	0.41	1.53	-78.9	-105.3	-126.8	-146.6	3.5	-92.57
0.75	51.51	3571.6	3558.4	3550.4	2.88	2.33	1.52	37.60	-16.4	-19.7	-45.6	0.38	0.28	-79.1	-105.0	-126.9	-147.3	6.0	-98.77
1.00	51.87	3584.6	3571.3	3563.3	2.81	2.31	1.53	37.61	-16.5	-20.0	-49.4	0.36	1.16	-77.5	-105.2	-126.7	-146.1	8.5	-102.44
1.25	52.29	3597.5	3584.2	3576.0	2.80	2.27	1.52	37.61	-16.0	-19.8	-52.7	0.35	2.29	-76.6	-105.0	-126.6	-146.5	10.0	-104.15
1.50	52.94	3610.9	3597.3	3588.9	2.77	2.23	1.51	37.62	-16.0	-19.6	-55.9	0.34	2.70	-76.4	-104.8	-126.5	-147.0	20.8	-111.46
1.75	53.55	3623.8	3610.5	3601.9	2.75	2.22	1.49	37.63	-16.4	-19.1	-56.9	0.35	2.15	-77.6	-104.4	-126.3	-146.2	35.5	-116.65
2.00	55.17	3637.7	3623.9	3615.1	2.74	2.22	1.50	37.63	-16.4	-19.9	-53.9	0.32	1.01	-77.5	-104.8	-126.5	-146.5	60.7	-121.37
2.25	56.15	3651.4	3637.7	3628.6	2.70	2.23	1.54	37.64	-16.0	-19.0	-52.5	0.32	0.40	-77.4	-104.1	-126.1	-146.6	86.7	-124.68
2.50	59.44	3666.2	3651.8	3642.5	2.70	2.22	1.56	37.62	-16.1	-19.8	-51.7	0.29	1.61	-77.3	-103.9	-126.1	-146.3	100.0	-126.00
2.75	60.87	3681.1	3666.6	3656.7	2.66	2.19	1.56	37.62	-15.6	-19.4	-50.1	0.29	2.29	-79.0	-103.5	-125.5	-147.0	148.1	-129.64
3.00	63.01	3696.7	3681.8	3671.7	2.57	2.17	1.56	37.64	-15.6	-19.5	-49.6	0.29	2.24	-76.8	-103.3	-125.6	-147.1	211.6	-132.85
3.25	63.97	3712.2	3697.6	3687.2	2.54	2.08	1.53	37.65	-14.9	-19.7	-48.8	0.30	1.30	-75.3	-102.9	-125.3	-146.1	302.4	-135.94
3.50	65.14	3728.4	3713.6	3703.1	2.58	2.04	1.46	37.66	-14.6	-19.9	-50.4	0.33	0.49	-74.9	-103.2	-125.7	-146.2	361.5	-137.37
3.75	66.28	3744.8	3729.9	3719.3	2.53	2.10	1.46	37.68	-14.5	-19.7	-49.8	0.37	2.21	-74.4	-102.8	-125.4	-146.0	507.5	-140.50
4.00	67.52	3761.6	3746.4	3735.6	2.50	2.10	1.54	37.68	-14.0	-20.3	-50.4	0.46	2.82	-74.7	-102.5	-125.3	-145.8	606.7	-142.20
4.25	67.93	3778.7	3763.3	3752.3	2.45	2.05	1.52	37.70	-14.1	-20.2	-49.0	0.57	2.00	-74.4	-102.4	-124.9	-146.4	851.6	-145.16
4.50	66.93	3795.5	3780.3	3769.1	2.42	1.99	1.47	37.71	-14.0	-20.1	-48.2	0.75	0.12	-74.7	-102.3	-124.7	-146.0	1000.0	-145.68

\*at 25°C unless mentioned otherwise



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