

Voltage Controlled Oscillator

ZX95-5363C+

Frequency Doubling 5223 to 5363 MHz

Features

- Frequency based on multiplication of carrier frequency
- Low phase noise
- Low pushing
- Low pulling
- 5V tuning voltage range
- Protected by US patent 6,790,049



CASE STYLE: GB956

Applications

- R&D
- LAB
- Instrumentation
- Wireless communications
- Point-to-point systems

Connectors	Model	Price	Qty.
SMA	ZX95-5363C-S+	\$ 54.95 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

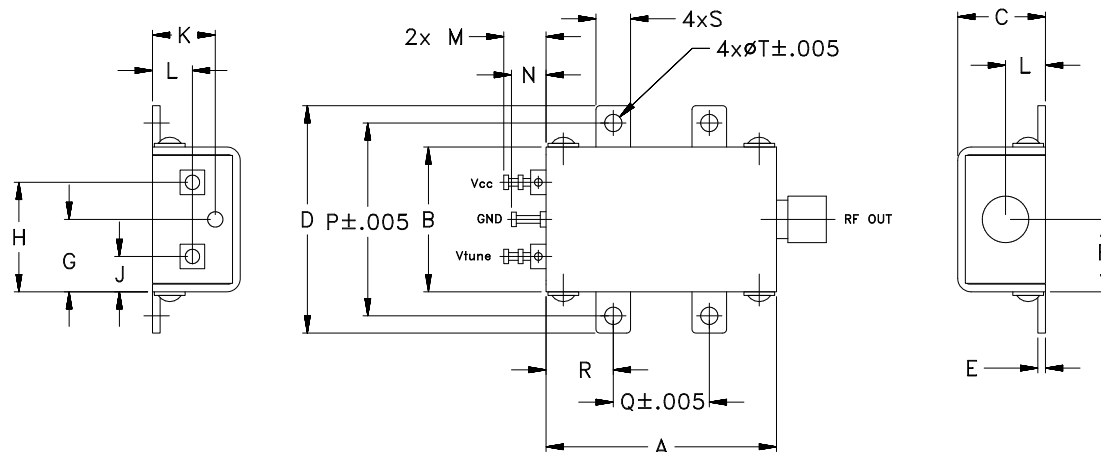
MODEL NO.	FREQ. (MHz)		POWER OUTPUT (dBm)	PHASE NOISE dBc/Hz SSB at offset frequencies, kHz				TUNING				NON HARMONIC SPURIOUS (dBc)	HARMONICS (dBc)			PULLING pk-pk @12 dB (MHz)	PUSHING (MHz/V)	DC OPERATING POWER				
	F 2X(1/2F)			Typ.				VOLTAGE RANGE (V)	SENSI-TIVITY (MHz/V)	PORT CAP (pF)	3 dB MODULATION BANDWIDTH (MHz)		Max.	F0.5	F1.5			F2	Typ.	Typ.	Vcc (volts)	Current (mA)
	Min.	Max.		Typ.	1	10	100															
ZX95-5363C+	5223	5363	0	-75	-102	-122	-140	0.5	5	55	70	16	180	-90	-15	-15	-14	0.5	1	5	35	

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)	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



For detailed performance specs & shopping online see web site

P.O. Box 350166, Brooklyn, New York 11235-0003 (718) 934-4500 Fax (718) 332-4661 The Design Engineers Search Engine Provides ACTUAL Data Instantly at minicircuits.com

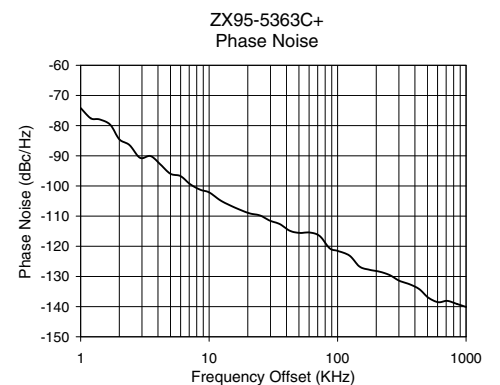
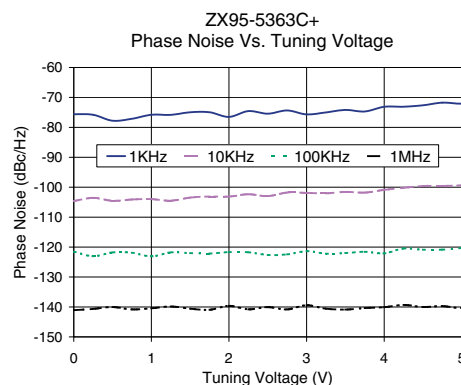
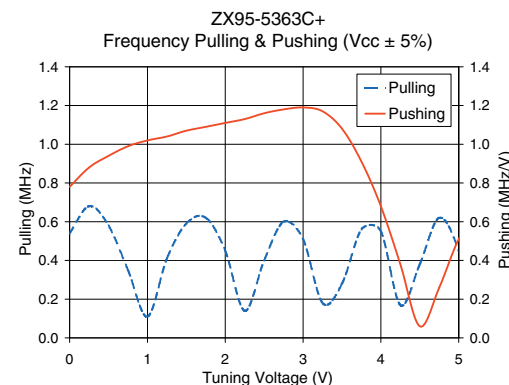
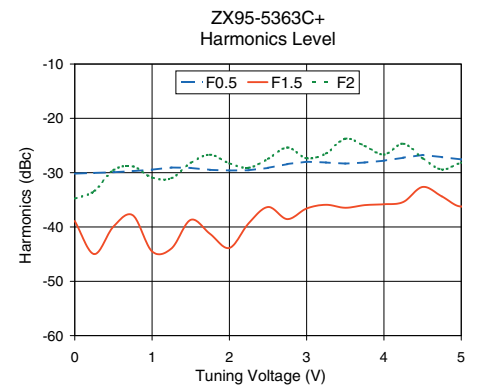
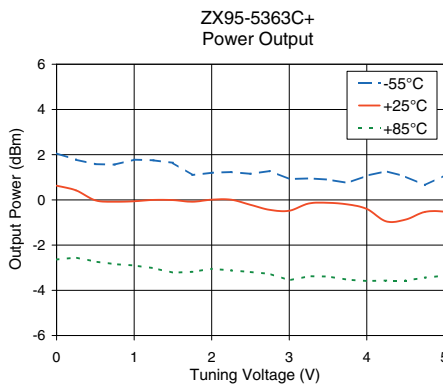
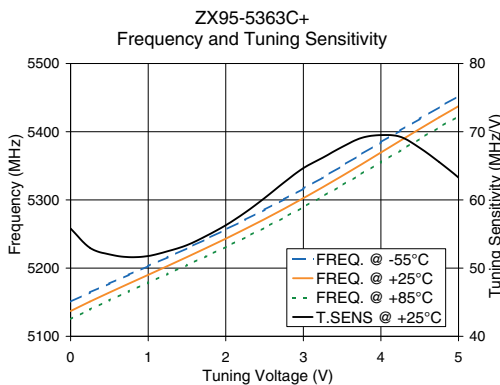
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Performance Data & Curves*

ZX95-5363C+

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 5293 MHz (dBc/Hz)
		-55°C	+25°C	+85°C	-55°C	+25°C	+85°C		F0.5	F1.5	F2			1kHz	10kHz	100kHz	1MHz		
0.00	55.80	5150.7	5137.0	5125.1	2.06	0.63	-2.64	26.13	-30.2	-38.9	-34.8	0.78	0.54	-75.6	-104.6	-121.5	-141.1	1.0	-74.16
0.25	52.97	5164.3	5151.0	5139.2	1.78	0.42	-2.55	26.16	-30.1	-45.0	-33.4	0.88	0.68	-75.8	-103.6	-123.1	-140.7	2.0	-84.53
0.50	52.01	5177.3	5164.2	5152.8	1.58	-0.02	-2.73	26.18	-29.9	-39.9	-29.5	0.94	0.58	-77.8	-104.5	-121.8	-140.0	3.5	-90.09
0.75	51.61	5190.3	5177.2	5165.9	1.56	-0.08	-2.84	26.19	-29.7	-37.8	-28.8	0.99	0.35	-77.1	-104.1	-121.9	-140.8	6.0	-96.73
1.00	51.77	5203.0	5190.1	5178.7	1.78	-0.06	-2.90	26.20	-29.5	-44.5	-30.9	1.02	0.11	-75.8	-104.0	-123.1	-140.5	8.5	-101.23
1.25	52.47	5215.9	5203.1	5191.5	1.75	0.00	-3.02	26.22	-29.1	-44.0	-31.0	1.04	0.41	-75.8	-104.5	-121.8	-139.9	10.0	-102.12
1.50	53.37	5229.1	5216.2	5204.5	1.64	-0.01	-3.22	26.23	-29.1	-38.7	-28.2	1.07	0.59	-75.0	-103.5	-122.0	-140.6	20.8	-109.11
1.75	54.73	5242.6	5229.5	5217.6	1.10	-0.08	-3.18	26.24	-29.5	-41.3	-26.7	1.09	0.62	-75.0	-103.1	-122.1	-141.0	35.5	-112.64
2.00	56.28	5256.5	5243.2	5231.1	1.20	0.01	-3.05	26.25	-29.6	-43.9	-28.3	1.11	0.45	-76.5	-103.1	-121.7	-139.6	60.7	-115.43
2.25	58.15	5270.8	5257.3	5245.0	1.23	0.01	-3.12	26.26	-29.6	-39.3	-29.1	1.13	0.14	-74.6	-102.3	-121.7	-140.8	86.7	-120.66
2.50	60.27	5285.6	5271.8	5259.3	1.15	-0.22	-3.19	26.26	-29.1	-36.3	-27.5	1.16	0.40	-75.4	-103.0	-122.7	-140.1	100.0	-121.51
2.75	62.55	5300.8	5286.9	5274.1	1.28	-0.44	-3.27	26.27	-28.4	-38.6	-25.4	1.18	0.60	-74.4	-101.8	-122.4	-140.8	148.1	-126.72
3.00	64.67	5316.6	5302.5	5289.4	0.92	-0.48	-3.56	26.27	-28.0	-36.6	-27.4	1.19	0.51	-75.7	-101.9	-121.4	-139.4	177.0	-127.78
3.25	66.19	5333.0	5318.7	5305.2	0.95	-0.16	-3.38	26.27	-28.1	-35.9	-26.5	1.17	0.18	-75.0	-102.0	-122.2	-140.6	211.6	-128.40
3.50	67.77	5349.9	5335.2	5321.5	0.90	-0.13	-3.39	26.28	-28.3	-36.5	-23.8	1.08	0.28	-74.2	-101.6	-122.0	-140.9	302.4	-131.43
3.75	69.09	5367.1	5352.2	5338.2	0.75	-0.20	-3.53	26.28	-28.1	-36.0	-25.1	0.91	0.56	-74.7	-101.8	-121.6	-140.4	361.5	-132.56
4.00	69.50	5384.5	5369.5	5355.3	1.07	-0.40	-3.59	26.28	-27.8	-35.8	-26.7	0.68	0.55	-73.1	-100.9	-122.1	-140.1	507.5	-137.00
4.25	69.25	5401.8	5386.8	5372.5	1.27	-0.95	-3.57	26.27	-27.3	-35.4	-24.7	0.38	0.17	-73.1	-100.2	-120.5	-139.3	606.7	-138.52
4.50	67.63	5418.9	5404.1	5389.6	1.03	-0.87	-3.57	26.28	-26.7	-32.6	-27.4	0.06	0.38	-72.6	-99.6	-120.9	-140.0	851.6	-139.12
5.00	63.28	5452.3	5437.4	5422.8	1.08	-0.52	-3.35	26.28	-27.6	-36.2	-28.2	0.51	0.45	-72.1	-99.4	-120.3	-140.4	1000.0	-140.11

*at 25°C unless mentioned otherwise



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