

Voltage Controlled Oscillator

ZX95-6030C+

Frequency Doubling 5890 to 6010 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

Applications

- r & d
- lab
- instrumentation
- wireless communications
- point-to-point radio



CASE STYLE: GB956

Connectors	Model	Price	Qty.
SMA	ZX95-6030C-S+	\$ 54.95 ea.	(1-9)

+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				TUNING					NON HARMONIC SPURIOUS (dBc)	HARMONICS (dBc)			PULLING pk-pk @12 dB _r (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.			V _{cc} Current (volts) (mA)					
	Min.	Max.		Typ.	1	10	100	1000	Min.	Max.	Typ.	Typ.		Typ.	Typ.	F0.5			F1.5	F2
ZX95-6030C+	5890	6010	+2	-73	-102	-124	-143	0.5	5	63-73	12	140	-90	-27	-25	-22	1.2	2	5	28

Maximum Ratings

Operating Temperature -55°C to 85°C

Storage Temperature -55°C to 100°C

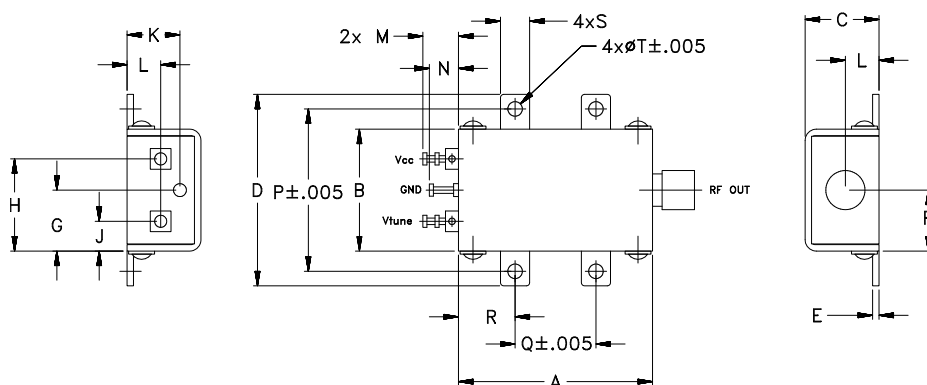
Absolute Max. Supply Voltage (Vcc) 7V

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	.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



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For detailed performance specs & shopping online see web site

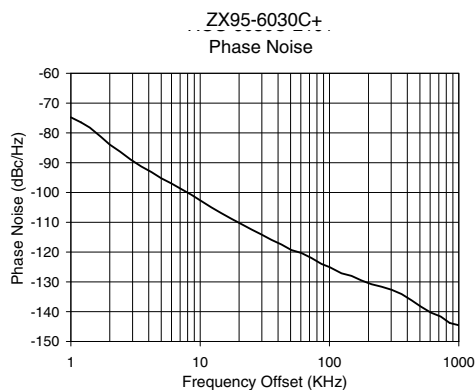
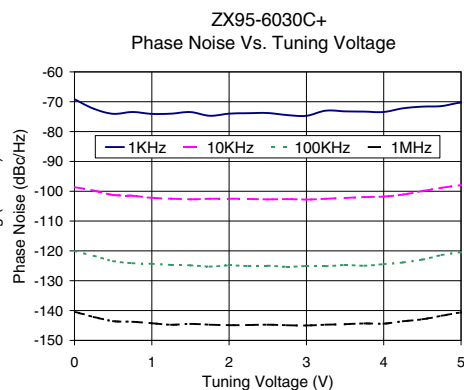
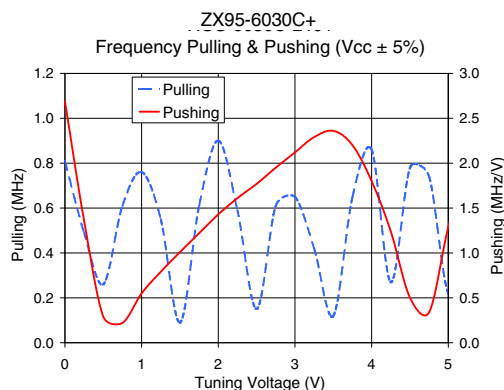
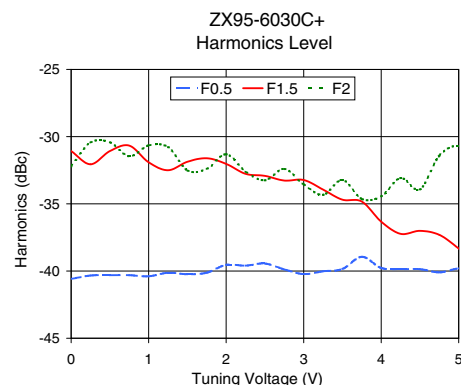
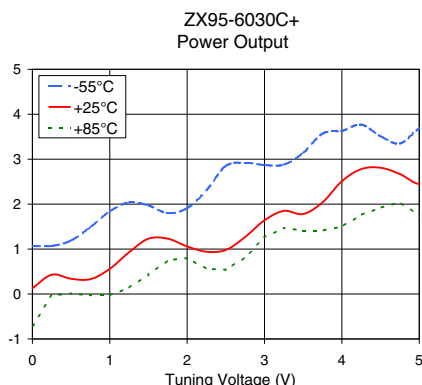
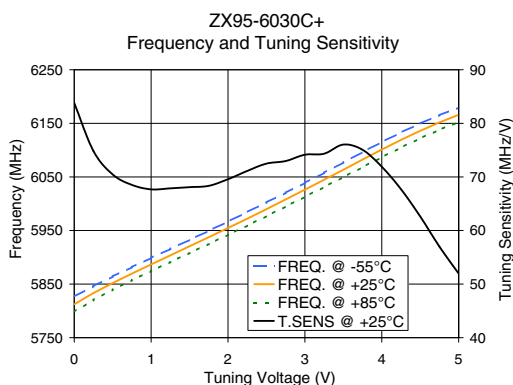
REV. A
M13668
EDR-10668F2
ZX95-6030C+
RAV
120403
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Performance Data & Curves*

ZX95-6030C+

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 5950MHz (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	83.80	5826.6	5812.3	5798.4	3.36	2.32	1.32	18.47	-38.0	-37.4	-31.1	1.85	1.75	-71.7	-101.2	-122.4	-141.0	1.0	-73.26
0.25	74.83	5846.2	5833.2	5820.4	3.54	2.56	1.42	18.57	-37.6	-38.2	-32.3	0.12	2.18	-73.7	-102.3	-124.9	-142.4	2.5	-85.70
0.50	70.46	5864.2	5852.0	5839.4	3.65	2.69	1.64	18.62	-37.9	-39.5	-29.6	0.55	1.06	-73.8	-102.8	-125.0	-143.0	4.2	-92.26
0.75	68.51	5881.7	5869.6	5857.3	3.64	2.77	1.76	18.66	-37.9	-38.9	-33.9	0.95	1.55	-73.9	-103.5	-125.5	-143.6	7.2	-98.71
1.00	67.67	5898.8	5886.7	5874.4	3.75	2.78	1.78	18.70	-37.8	-38.6	-30.4	1.25	1.88	-72.9	-103.0	-125.0	-143.7	8.7	-100.74
1.25	67.87	5915.7	5903.6	5891.3	3.69	2.83	1.75	18.72	-37.3	-39.3	-32.7	1.50	1.77	-74.3	-102.8	-124.7	-144.5	10.0	-102.18
1.50	68.08	5932.5	5920.6	5908.1	3.65	2.76	1.78	18.74	-37.3	-39.0	-32.6	1.69	0.86	-74.7	-102.6	-125.2	-143.4	23.9	-111.63
1.75	68.34	5949.5	5937.6	5925.0	3.72	2.77	1.69	18.75	-36.9	-38.5	-31.7	1.84	1.12	-73.2	-102.5	-125.1	-143.3	40.2	-116.62
2.00	69.57	5966.7	5954.7	5942.0	3.57	2.80	1.66	18.76	-36.5	-39.4	-34.2	1.97	1.65	-72.4	-101.7	-124.3	-143.1	66.2	-121.03
2.25	71.11	5984.4	5972.1	5959.2	3.35	2.71	1.66	18.77	-36.4	-39.8	-34.1	2.08	1.29	-73.1	-101.9	-124.7	-143.2	79.2	-122.58
2.50	72.49	6002.3	5989.9	5976.8	3.45	2.48	1.53	18.77	-35.9	-39.1	-32.3	2.16	0.51	-73.1	-102.4	-124.5	-142.9	100.0	-124.80
2.75	72.97	6020.4	6008.0	5994.8	3.31	2.42	1.28	18.79	-35.9	-38.5	-35.5	2.15	0.67	-72.8	-101.7	-124.8	-142.2	156.0	-128.63
3.00	74.15	6038.9	6026.2	6013.0	3.09	2.38	1.22	18.79	-36.0	-38.8	-31.8	2.16	1.55	-72.4	-102.1	-124.1	-142.7	183.1	-129.54
3.25	74.34	6057.6	6044.8	6031.2	2.84	2.19	1.14	18.77	-35.5	-38.5	-35.6	2.11	1.38	-74.1	-101.7	-124.2	-142.5	218.9	-130.80
3.50	76.03	6076.9	6063.3	6049.7	2.41	1.93	0.97	18.74	-34.9	-36.4	-32.8	2.03	0.56	-72.2	-100.6	-124.0	-142.7	307.3	-133.53
3.75	75.06	6096.3	6082.4	6068.1	2.45	1.46	0.70	18.70	-34.4	-37.1	-34.2	1.98	1.48	-72.6	-100.7	-122.8	-141.6	360.8	-135.18
4.00	71.90	6115.1	6101.1	6086.7	2.24	1.53	0.16	18.72	-34.0	-36.5	-33.1	1.62	1.53	-70.4	-100.7	-122.5	-141.7	506.4	-138.66
4.50	62.63	6149.6	6136.0	6122.0	1.74	1.10	0.12	18.78	-33.6	-35.6	-32.4	0.96	0.76	-71.1	-100.4	-122.4	-141.8	605.4	-140.52
4.75	56.99	6165.1	6151.7	6137.9	1.53	0.88	-0.07	18.79	-32.8	-35.6	-29.7	0.80	1.08	-71.1	-100.6	-122.3	-141.9	997.8	-144.70
5.00	51.97	6179.4	6165.9	6152.5	1.15	0.78	-0.30	18.80	-32.6	-36.8	-27.9	0.83	1.29	-73.2	-100.3	-122.1	-141.7	1000.0	-144.71

*at 25°C unless mentioned otherwise



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