

Coaxial

Voltage Controlled Oscillator

ZX95-6520C+

Frequency Doubling 6385 to 6520 MHz

Features

- frequency based on multiplication of carrier frequency
- low phase noise
- low pushing
- low pulling
- protected by US patent 6,790,049

Applications

- r & d
- lab
- instrumentation
- wireless communications
- wireless broadband access



CASE STYLE: GB956

Connectors	Model	Price	Qty.
SMA	ZX95-6520C-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

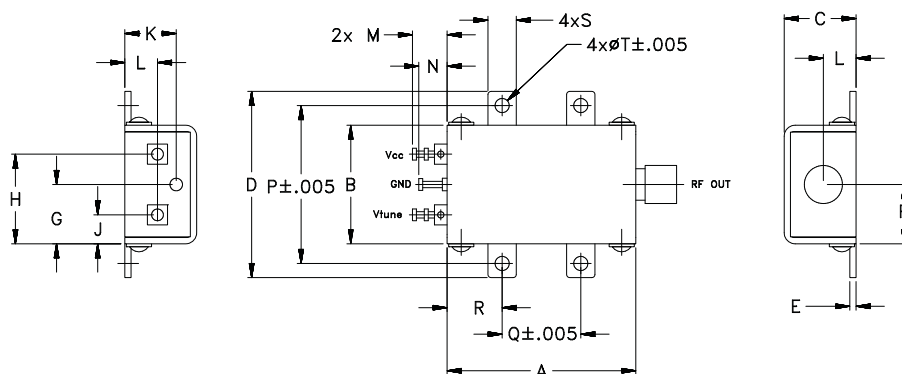
MODEL NO.	FREQ. (MHz)		POWER OUTPUT (dBm)	PHASE NOISE dBc/Hz SSB at offset frequencies,kHz				TUNING					NON HARMONIC SPURIOUS (dBc)	HARMONICS (dBc)			PULLING pk-pk @ 12 dB r (MHz)	PUSHING (MHz/V)	DC OPERATING POWER	
	F 2X(1/2F)			Typ.				VOLTAGE RANGE (V)	SENSI- TIVITY (MHz/V)	PORT CAP (pF)	3 dB MODULATION BANDWIDTH (MHz)	Max.			Vcc (volts)	Current (mA)				
	Min.	Max.		Typ.	1	10	100					1000		Min.					Max.	Typ.
ZX95-6520C+	6385	6520	+2	-72	-100	-123	-143	0.5	4.5	77-92	13	260	-90	-17	-14	-19	2.0	2.5	5	35

Maximum Ratings

Operating Temperature	-55°C to 85°C
Storage Temperature	-55°C to 100°C
Absolute Max. Supply Voltage (Vcc)	6.5V
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	.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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IF/RF MICROWAVE COMPONENTS

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For detailed performance specs
& shopping online see web site

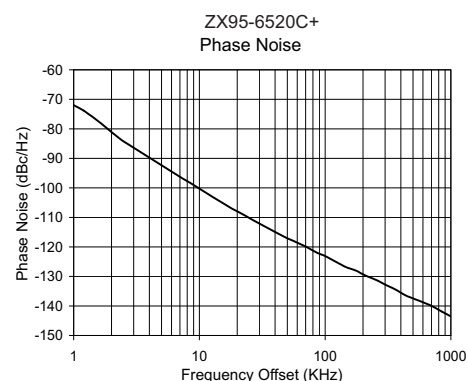
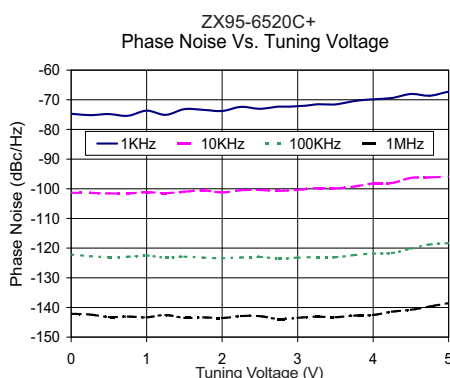
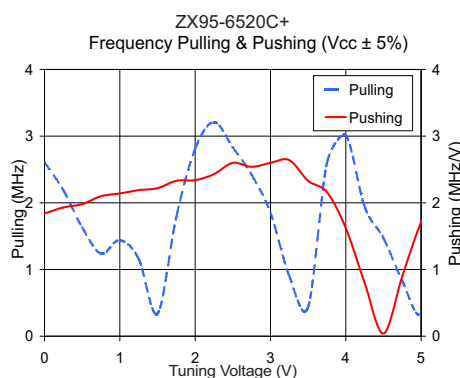
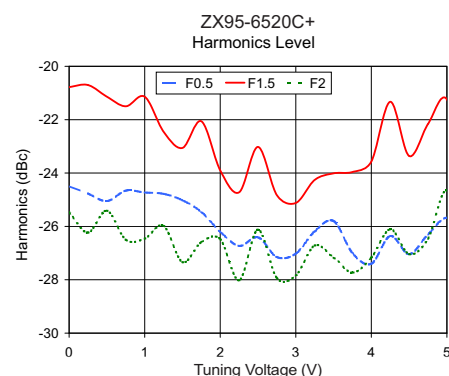
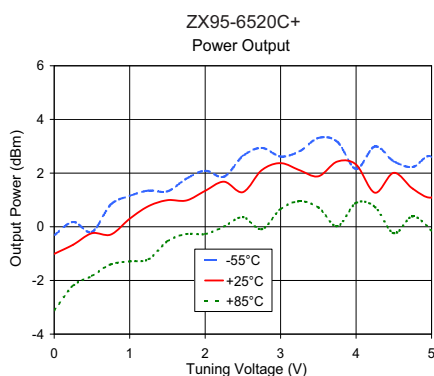
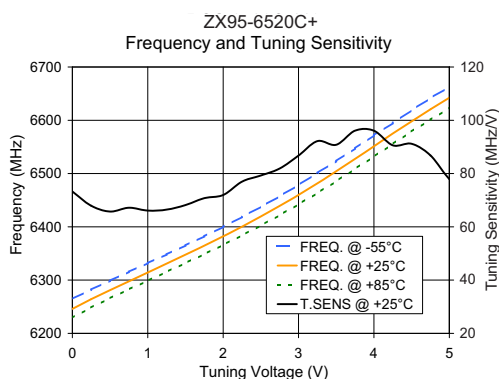
REV. A
M140028
EDR-9302/3MPF2
ZX95-6520C+
RAV
130107
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Performance Data & Curves*

ZX95-6520C+

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 6453 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	73.25	6264.7	6245.9	6229.3	-0.32	-1.01	-3.11	24.52	-24.5	-20.8	-25.5	1.84	2.61	-74.7	-101.3	-122.1	-142.1	1.0	-71.97
0.25	67.92	6282.0	6264.2	6248.5	0.18	-0.67	-2.20	24.65	-24.8	-20.7	-26.2	1.93	2.19	-75.2	-101.4	-122.7	-142.4	2.0	-81.13
0.50	65.72	6298.9	6281.2	6266.0	-0.19	-0.24	-1.83	24.78	-25.1	-21.1	-25.4	1.98	1.63	-74.8	-101.6	-123.1	-143.2	3.5	-88.20
0.75	67.18	6315.5	6297.6	6282.6	0.83	-0.29	-1.40	24.88	-24.7	-21.5	-26.5	2.10	1.24	-75.4	-101.6	-122.9	-143.1	5.0	-92.32
1.00	66.09	6331.8	6314.4	6298.8	1.15	0.30	-1.29	24.98	-24.7	-21.1	-26.5	2.14	1.44	-73.7	-101.1	-122.5	-143.3	7.1	-96.43
1.25	66.43	6348.2	6330.9	6315.4	1.35	0.77	-1.21	25.09	-24.8	-22.5	-26.0	2.19	1.16	-75.1	-101.5	-123.2	-142.6	8.5	-98.36
1.50	68.17	6365.0	6347.5	6332.0	1.32	0.99	-0.54	25.20	-25.0	-23.1	-27.3	2.22	0.34	-73.2	-101.0	-122.9	-143.5	20.8	-108.32
1.75	70.75	6382.2	6364.6	6348.8	1.79	0.98	-0.27	25.30	-25.5	-22.1	-26.6	2.33	1.79	-73.4	-100.6	-123.2	-143.4	35.5	-113.77
2.00	71.96	6399.8	6382.3	6366.0	2.09	1.34	-0.27	25.42	-26.2	-23.9	-26.5	2.34	2.81	-73.8	-101.2	-123.4	-143.6	60.7	-118.61
2.25	76.96	6418.5	6400.3	6384.0	1.87	1.68	0.01	25.52	-26.7	-24.7	-28.0	2.43	3.21	-72.4	-100.5	-123.2	-142.9	72.5	-120.21
2.50	79.28	6437.6	6419.5	6402.4	2.64	1.29	0.36	25.62	-26.4	-23.0	-26.1	2.60	2.83	-73.0	-100.4	-123.0	-142.9	86.7	-122.02
2.75	81.88	6457.5	6439.3	6422.0	2.94	2.11	-0.09	25.75	-27.2	-24.8	-27.9	2.54	2.42	-72.3	-100.7	-123.6	-143.9	148.1	-126.93
3.00	86.74	6478.5	6459.8	6442.4	2.62	2.37	0.66	25.85	-27.0	-25.1	-27.8	2.60	1.85	-72.2	-100.4	-123.2	-143.5	177.0	-128.77
3.25	92.18	6501.0	6481.5	6463.4	2.81	2.11	0.95	25.95	-26.2	-24.3	-26.7	2.64	0.90	-71.5	-99.8	-123.0	-143.1	211.6	-129.81
3.50	90.80	6523.4	6504.5	6485.5	3.31	1.88	0.72	26.10	-25.8	-24.0	-27.2	2.33	0.44	-71.6	-99.9	-123.1	-143.3	302.4	-132.82
3.75	96.10	6547.4	6527.2	6508.9	3.17	2.43	0.02	26.18	-27.0	-24.0	-27.7	2.16	2.60	-70.5	-99.2	-122.4	-142.8	361.5	-134.41
4.00	96.08	6571.9	6551.2	6531.7	2.16	2.32	0.89	26.29	-27.4	-23.6	-27.2	1.62	3.01	-69.8	-98.2	-121.9	-142.6	507.5	-137.54
4.25	90.58	6594.9	6575.3	6555.5	2.99	1.27	0.74	26.43	-26.4	-21.3	-26.1	0.80	1.94	-69.4	-98.1	-121.6	-141.4	606.7	-138.83
4.50	91.16	6618.8	6597.9	6579.0	2.44	2.01	-0.24	26.52	-27.0	-23.4	-27.0	0.04	1.47	-68.1	-96.3	-120.2	-140.8	851.6	-141.94

*at 25°C unless mentioned otherwise



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