

Coaxial

Voltage Controlled Oscillator

ZX95-3075+

Linear Tuning 2920 to 3075 MHz

Features

- linear tuning characteristics
- low phase noise
- low pulling
- protected by US patent 6,790,049

Applications

- r & d
- lab
- Instrumentation
- point-to-point communication
- radio location



CASE STYLE: GB956

Connectors	Model	Price	Qty.
SMA	ZX95-3075-S+	\$40.95 ea.	(1-9)

+RoHS Compliant

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

Electrical Specifications

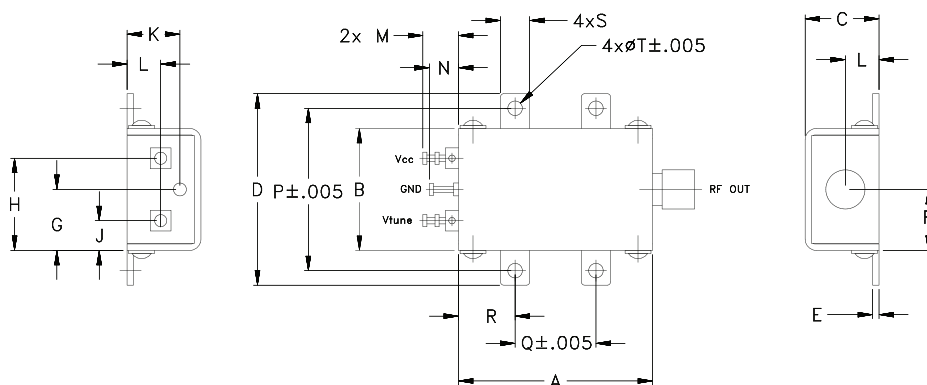
MODEL NO.	FREQ. (MHz)		POWER OUTPUT (dBm)	PHASE NOISE dBc/Hz SSB at offset frequencies,KHz Typ.				TUNING					NON HARMONIC SPURIOUS (dBc)	HARMONICS (dBc)		PULLING pk-pk @12 dB _r (MHz)	PUSHING (MHz/V)	DC OPERATING POWER V _{cc} Current (volts) (mA)	
								VOLTAGE RANGE (V)	SENSI- TIVITY (MHz/V)	PORT CAP (pF)	3 dB MODULATION BANDWIDTH (MHz)								
	Min.	Max.	Typ.	1	10	100	1000	Min.	Max.	Typ.	Typ.	Typ.	Typ.	Typ.	Max.	Typ.	Typ.	Max.	
ZX95-3075+	2920	3075	+3	-78	-102	-123	-143	0.5	11	24-28	20	30	-90	-19	-10	0.7	2.5	8	40

Maximum Ratings

Operating Temperature	-55°C to 85°C
Storage Temperature	-55°C to 100°C
Absolute Max. Supply Voltage (Vcc)	10V
Absolute Max. Tuning Voltage (Vtune)	13V
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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 I/F/RF MICROWAVE COMPONENTS

For detailed performance specs & shopping online see web site

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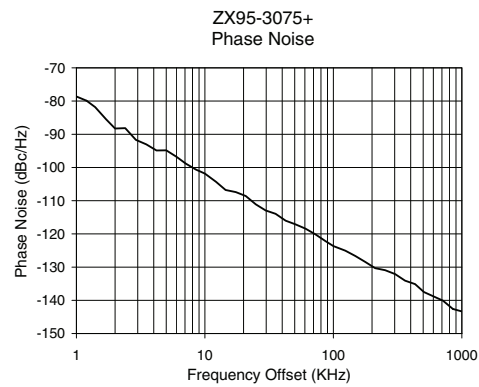
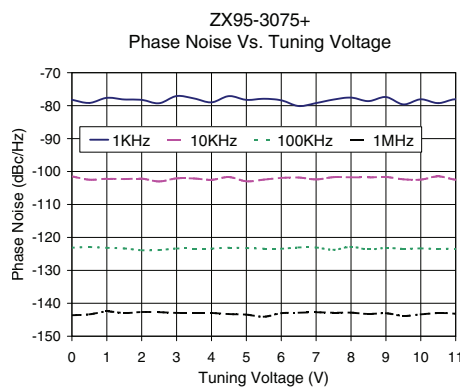
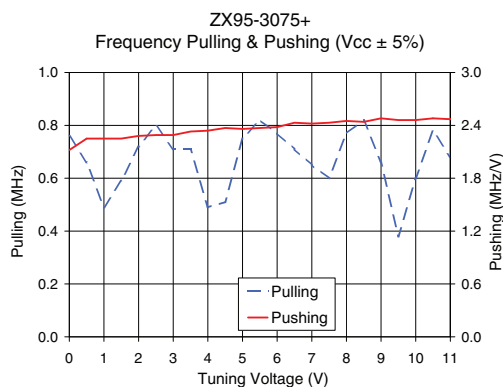
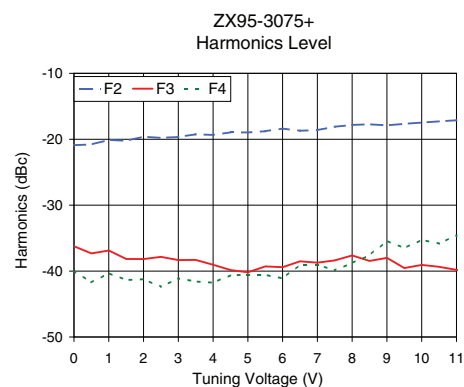
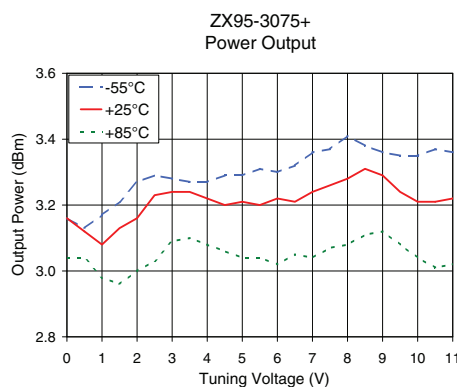
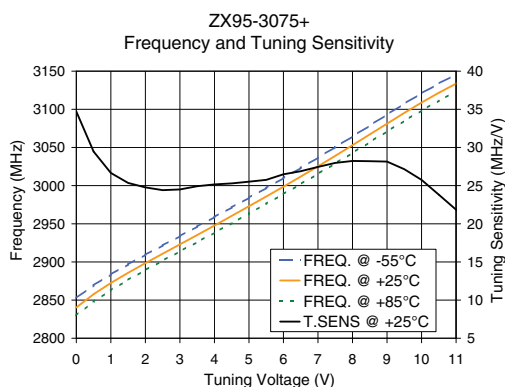
REV. OR
 M108877
 EDR-8250
 ZX95-3075+
 RAV
 120905
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Performance Data & Curves*

ZX95-3075+

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 2998 MHz (dBc/Hz)
		-55°C	+25°C	+85°C	-55°C	+25°C	+85°C		F2	F3	F4			1kHz	10kHz	100kHz	1MHz		
0.00	34.72	2852.7	2840.3	2830.0	3.16	3.16	3.04	32.91	-20.9	-36.2	-40.0	2.12	0.76	-78.2	-101.5	-123.1	-143.6	1.0	-78.62
0.50	29.47	2869.4	2857.7	2847.9	3.13	3.12	3.04	32.90	-20.8	-37.3	-41.7	2.25	0.66	-79.2	-102.5	-122.9	-143.4	2.0	-88.28
1.00	26.66	2883.6	2872.4	2863.0	3.17	3.08	2.98	32.94	-20.1	-36.9	-40.3	2.25	0.49	-77.6	-102.2	-123.2	-142.5	3.5	-93.04
1.50	25.35	2896.7	2885.8	2876.5	3.21	3.13	2.96	32.97	-20.2	-38.2	-41.4	2.25	0.59	-78.1	-102.3	-123.4	-143.0	6.0	-96.76
2.00	24.77	2909.3	2898.4	2889.2	3.27	3.16	3.00	32.99	-19.6	-38.2	-41.2	2.28	0.72	-78.2	-102.2	-123.9	-142.7	8.5	-100.62
2.50	24.40	2921.6	2910.8	2901.6	3.29	3.23	3.03	33.02	-19.8	-37.8	-42.4	2.29	0.80	-79.3	-103.0	-123.8	-142.7	10.0	-101.84
3.00	24.50	2933.8	2923.0	2913.8	3.28	3.24	3.09	33.03	-19.7	-38.3	-41.1	2.29	0.71	-77.1	-102.1	-123.4	-142.9	20.8	-108.59
3.50	24.93	2946.3	2935.3	2926.0	3.27	3.24	3.10	33.04	-19.2	-38.3	-41.6	2.33	0.71	-77.8	-102.1	-123.4	-142.9	35.5	-113.96
4.00	25.16	2958.9	2947.7	2938.3	3.27	3.22	3.08	33.05	-19.4	-39.0	-41.8	2.34	0.49	-79.0	-102.5	-123.4	-143.0	60.7	-118.41
4.50	25.30	2971.5	2960.3	2950.8	3.29	3.20	3.06	33.06	-19.0	-39.8	-40.6	2.37	0.51	-77.1	-101.7	-123.1	-143.3	86.7	-122.16
5.00	25.52	2984.2	2973.0	2963.4	3.29	3.21	3.04	33.07	-19.0	-40.2	-40.6	2.36	0.75	-78.3	-103.0	-123.2	-143.4	100.0	-123.67
5.50	25.75	2996.9	2985.7	2976.1	3.31	3.20	3.04	33.09	-18.8	-39.3	-40.6	2.37	0.82	-77.9	-102.5	-123.4	-144.1	148.1	-126.64
6.00	26.49	3010.0	2998.6	2989.0	3.30	3.22	3.02	33.10	-18.4	-39.4	-41.1	2.38	0.77	-78.4	-101.9	-123.4	-143.0	177.0	-128.43
6.50	26.88	3023.2	3011.8	3002.0	3.32	3.21	3.05	33.11	-18.7	-38.5	-39.0	2.43	0.71	-80.1	-101.8	-123.1	-142.9	211.6	-130.31
7.00	27.45	3036.8	3025.3	3015.5	3.36	3.24	3.04	33.14	-18.6	-38.7	-39.0	2.42	0.65	-79.2	-102.4	-123.1	-142.7	302.4	-132.10
7.50	27.97	3050.5	3039.0	3029.1	3.37	3.26	3.07	33.16	-18.1	-38.4	-39.9	2.43	0.60	-78.2	-101.7	-123.8	-142.9	361.5	-134.09
8.00	28.24	3064.6	3053.0	3043.0	3.41	3.28	3.08	33.19	-17.8	-37.6	-38.8	2.45	0.77	-77.6	-101.8	-122.9	-142.9	507.5	-137.52
9.00	28.15	3093.1	3081.2	3071.1	3.36	3.29	3.12	33.24	-17.9	-38.0	-35.4	2.48	0.66	-77.4	-101.7	-123.2	-143.0	606.7	-138.88
10.00	25.75	3121.0	3108.9	3098.5	3.35	3.21	3.04	33.30	-17.5	-39.1	-35.3	2.46	0.60	-78.1	-102.5	-123.3	-143.4	851.6	-142.60
11.00	21.84	3145.7	3133.6	3123.3	3.36	3.22	3.02	33.36	-17.1	-39.8	-34.6	2.47	0.68	-78.1	-102.5	-123.4	-143.2	1000.0	-143.35

*at 25°C unless mentioned otherwise



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