

Coaxial

Voltage Controlled Oscillator

ZX95-1062-S+

Linear Tuning 1045 to 1063 MHz

Features

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

Applications

- r & d
- lab
- instrumentation
- wireless communications
- line for receiver
- wireless microphone



CASE STYLE: GB956

Connectors	Model
SMA	ZX95-1062-S+

+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	
								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.
ZX95-1062-S+	1045	1063	+0.5	-91	-114	-134	-154	0.5	14	4.5	34	70	-90	-20	-10	0.4	0.05	5	40

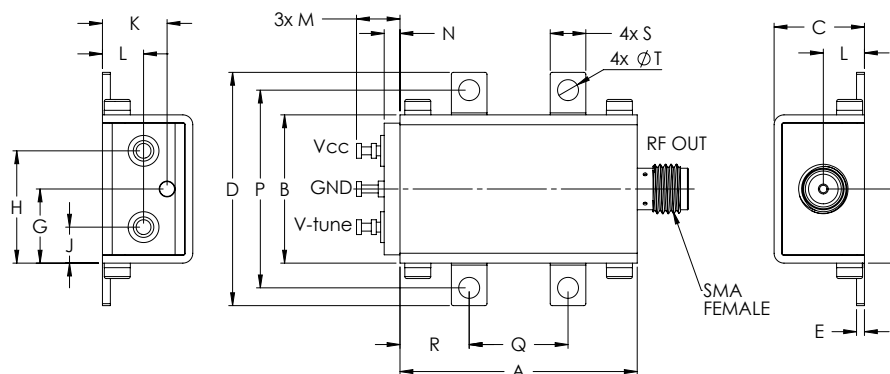
Maximum Ratings

Operating Temperature	-55°C to 85°C
Storage Temperature	-55°C to 100°C
Absolute Max. Supply Voltage (Vcc)	5.8V
Absolute Max. Tuning Voltage (Vtune)	16.0V
All specifications	50 ohm system

Permanent damage may occur if any of these limits are exceeded.



NOTE: When soldering the DC connections, caution must be used to avoid overheating the DC terminals. See Application Note [AN-40-10](#).

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	.08	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	2.03	25.40	12.70	8.89	4.57	2.69	35.0

Notes

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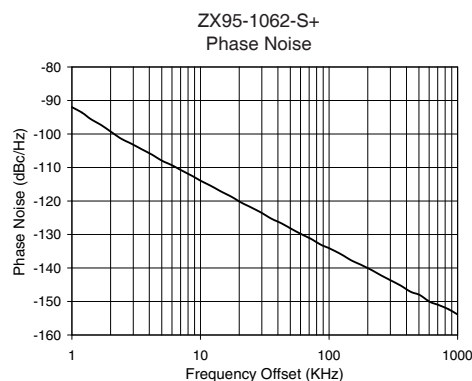
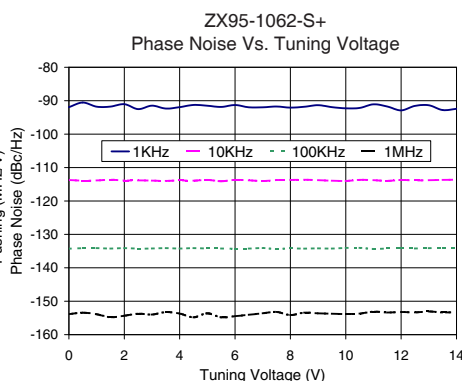
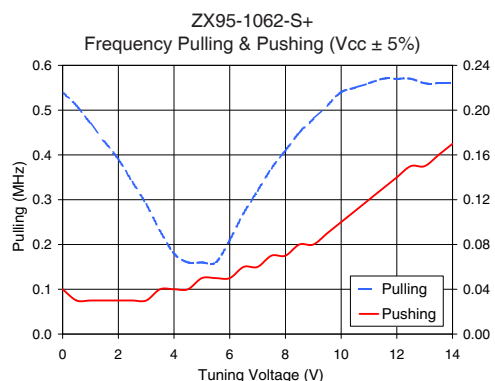
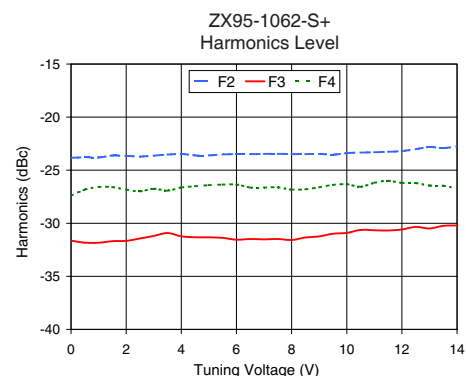
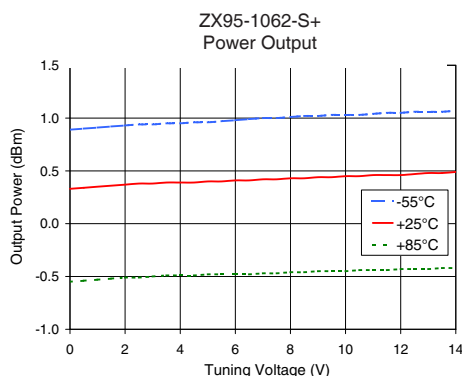
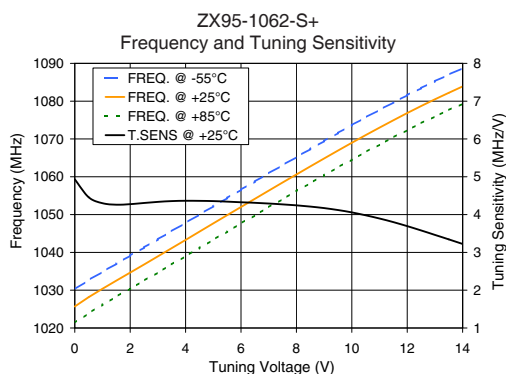
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Performance Data & Curves*

ZX95-1062-S+

V TUNE	TUNE SENS (MHz/V)	FREQUENCY (MHz)			POWER OUTPUT (dBm)			I _{cc} (mA)	HARMONICS (dBc)			FREQ. PUSH (MHz/V)	FREQ. PULL (MHz)	PHASE NOISE (dBc/Hz) at offsets				FREQ OFFSET (KHz)	PHASE NOISE at 1054 MHz (dBc/Hz)
		-55°C	+25°C	+85°C	-55°C	+25°C	+85°C		F2	F3	F4			1kHz	10kHz	100kHz	1MHz		
0.00	4.93	1030.3	1025.7	1021.4	0.89	0.33	-0.55	32.95	-23.8	-31.6	-27.4	0.04	0.54	-91.9	-113.7	-134.3	-153.9	1.0	-92.00
0.50	4.46	1032.7	1028.2	1023.9	0.90	0.34	-0.54	32.95	-23.8	-31.8	-26.8	0.03	0.51	-90.6	-113.9	-134.1	-153.4	2.0	-99.26
1.00	4.30	1034.9	1030.4	1026.2	0.91	0.35	-0.53	32.94	-23.8	-31.8	-26.6	0.03	0.47	-91.8	-113.9	-134.1	-153.9	3.5	-104.57
2.50	4.31	1041.3	1036.8	1032.5	0.94	0.38	-0.51	32.93	-23.7	-31.4	-27.0	0.03	0.34	-92.5	-113.8	-134.3	-153.7	6.0	-109.34
3.00	4.34	1043.5	1039.0	1034.7	0.94	0.38	-0.50	32.92	-23.6	-31.2	-26.8	0.03	0.29	-91.5	-113.9	-134.2	-154.0	8.5	-112.40
3.50	4.36	1045.6	1041.1	1036.8	0.95	0.39	-0.49	32.93	-23.5	-30.9	-26.9	0.04	0.23	-92.4	-114.0	-134.1	-153.3	10.0	-113.91
4.00	4.37	1047.8	1043.3	1039.0	0.95	0.39	-0.49	32.92	-23.5	-31.2	-26.6	0.04	0.18	-91.9	-113.9	-134.3	-153.7	20.8	-120.47
4.50	4.36	1050.0	1045.5	1041.2	0.96	0.39	-0.49	32.92	-23.6	-31.3	-26.5	0.04	0.16	-91.3	-113.9	-134.1	-154.8	35.5	-125.27
5.50	4.34	1054.4	1049.8	1045.5	0.97	0.40	-0.48	32.92	-23.5	-31.4	-26.4	0.05	0.16	-91.9	-114.1	-134.2	-154.8	60.7	-129.87
6.00	4.33	1056.6	1052.0	1047.7	0.98	0.41	-0.48	32.91	-23.5	-31.6	-26.4	0.05	0.21	-91.3	-113.7	-134.3	-154.5	86.7	-133.09
6.50	4.31	1058.7	1054.2	1049.8	0.99	0.41	-0.48	32.91	-23.5	-31.5	-26.6	0.06	0.27	-92.0	-113.8	-134.2	-154.1	100.0	-134.10
7.00	4.29	1060.9	1056.3	1052.0	1.00	0.42	-0.47	32.91	-23.5	-31.5	-26.6	0.06	0.32	-92.0	-114.1	-134.1	-153.6	148.1	-137.67
7.50	4.27	1063.1	1058.5	1054.1	1.00	0.42	-0.47	32.90	-23.5	-31.5	-26.6	0.07	0.37	-91.7	-113.7	-134.4	-153.2	177.0	-139.03
8.50	4.21	1067.3	1062.7	1058.3	1.02	0.43	-0.46	32.90	-23.5	-31.3	-26.8	0.08	0.45	-91.8	-113.7	-134.3	-153.4	211.6	-140.51
9.50	4.12	1071.6	1066.9	1062.5	1.03	0.44	-0.45	32.89	-23.5	-31.0	-26.4	0.09	0.51	-91.9	-113.9	-134.3	-153.7	302.4	-143.72
10.00	4.06	1073.6	1069.0	1064.5	1.03	0.45	-0.45	32.89	-23.4	-30.9	-26.3	0.10	0.54	-92.3	-114.0	-134.1	-153.8	361.5	-145.26
11.00	3.90	1077.7	1073.0	1068.5	1.04	0.46	-0.44	32.88	-23.3	-30.7	-26.2	0.12	0.56	-91.1	-113.8	-134.4	-153.1	507.5	-148.06
12.00	3.69	1081.6	1076.9	1072.3	1.05	0.46	-0.43	32.88	-23.2	-30.6	-26.2	0.14	0.57	-92.9	-113.7	-134.2	-153.2	606.7	-150.09
13.50	3.34	1087.0	1082.2	1077.7	1.06	0.48	-0.42	32.88	-22.9	-30.2	-26.5	0.16	0.56	-92.8	-113.7	-134.0	-153.4	851.6	-152.34
14.00	3.22	1088.7	1083.9	1079.3	1.07	0.49	-0.42	32.87	-22.8	-30.2	-26.7	0.17	0.56	-92.4	-113.7	-134.0	-153.3	1000.0	-153.88

*at 25°C unless mentioned otherwise



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