

Voltage Controlled Oscillator

ZX95-1960-S+

Typical Performance Data

V TUNE	TUNE SENS (MHz/V)	FREQUENCY (MHz)			POWER OUTPUT (dBm)			HARMONICS (dBc)			FREQ. PUSH (MHz/V)	FREQ OFFSET (kHz)	PHASE NOISE (dBc/Hz)
		-55°C	+25°C	+85°C	-55°C	+25°C	+85°C	F2	F3	F4			
0.0	9.3	1950.9	1947.0	1944.4	4.9	4.7	3.6	-26.8	-29.2	-47.0	0.2	1	-92
0.3	8.4	1953.1	1949.4	1946.9	5.0	4.7	3.7	-26.6	-29.2	-47.0	0.2	10	-119
0.5	7.9	1955.2	1951.5	1949.0	5.0	4.8	3.8	-26.5	-29.2	-47.5	0.2	100	-139
0.8	7.6	1957.1	1953.4	1951.0	5.1	4.8	3.9	-26.5	-29.2	-47.0	0.1	1000	-158
1.0	7.4	1959.0	1955.3	1952.9	5.1	4.9	3.9	-26.5	-29.4	-46.9	0.1		
1.3	7.3	1960.9	1957.2	1954.8	5.1	4.9	4.0	-26.4	-29.5	-47.2	0.1		
1.5	7.3	1962.7	1959.0	1956.6	5.2	5.0	4.0	-26.4	-29.7	-46.7	0.1		
1.8	7.3	1964.5	1960.8	1958.4	5.2	5.0	4.0	-26.5	-30.0	-46.5	0.1		
2.1	7.5	1966.9	1963.2	1960.8	5.2	5.0	4.1	-26.6	-30.5	-46.4	0.1		
2.3	7.6	1968.3	1964.5	1962.1	5.2	5.1	4.1	-26.6	-30.8	-46.5	0.1		
2.5	7.7	1970.2	1966.4	1964.0	5.3	5.1	4.1	-26.7	-31.3	-46.2	0.1		
2.8	7.9	1972.1	1968.3	1965.9	5.3	5.1	4.1	-26.8	-31.8	-45.7	0.1		
3.0	8.1	1974.1	1970.3	1967.9	5.3	5.1	4.2	-26.9	-32.2	-46.0	0.1		
3.3	8.2	1976.2	1972.3	1969.9	5.3	5.1	4.2	-27.1	-32.5	-46.0	0.1		
3.5	8.2	1978.2	1974.4	1971.9	5.3	5.1	4.2	-27.3	-32.9	-47.2	0.1		
3.8	8.1	1980.3	1976.4	1974.0	5.3	5.2	4.2	-27.4	-33.1	-47.9	0.2		
4.0	7.9	1982.3	1978.5	1976.1	5.3	5.2	4.2	-27.7	-33.6	-47.9	0.3		
4.3	7.6	1984.3	1980.5	1978.1	5.3	5.2	4.2	-27.9	-34.0	-48.4	0.4		
4.5	7.2	1986.2	1982.4	1980.1	5.3	5.2	4.1	-28.2	-34.3	-48.3	0.5		
4.8	6.8	1987.9	1984.2	1982.0	5.3	5.1	4.1	-28.2	-34.8	-47.8	0.5		
5.0	6.2	1989.6	1985.9	1983.7	5.3	5.1	4.1	-28.5	-35.2	-46.8	0.6		
5.3	5.7	1991.1	1987.4	1985.3	5.3	5.1	4.1	-28.8	-35.5	-46.1	0.6		
5.5	5.1	1992.5	1988.8	1986.8	5.3	5.1	4.0	-29.2	-35.9	-46.0	0.7		
5.8	4.5	1993.8	1990.1	1988.1	5.3	5.1	4.0	-29.4	-36.2	-46.2	0.7		
6.0	3.9	1994.9	1991.2	1989.2	5.3	5.1	4.0	-29.5	-36.3	-46.1	0.6		
6.3	3.4	1995.9	1992.2	1990.2	5.3	5.1	4.0	-29.6	-36.2	-46.9	0.6		
6.5	3.0	1996.8	1993.1	1991.1	5.3	5.1	3.9	-29.7	-36.4	-47.2	0.5		
6.8	2.6	1997.6	1993.8	1991.8	5.3	5.1	3.9	-29.9	-36.2	-47.4	0.4		
7.0	2.6	1998.2	1994.5	1992.4	5.3	5.1	3.9	-30.0	-36.3	-47.7	0.4		

Notes

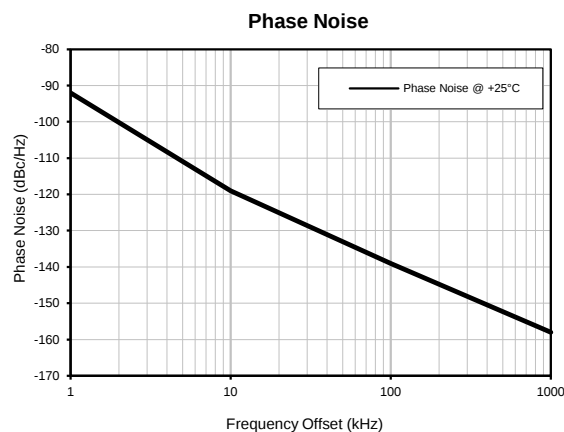
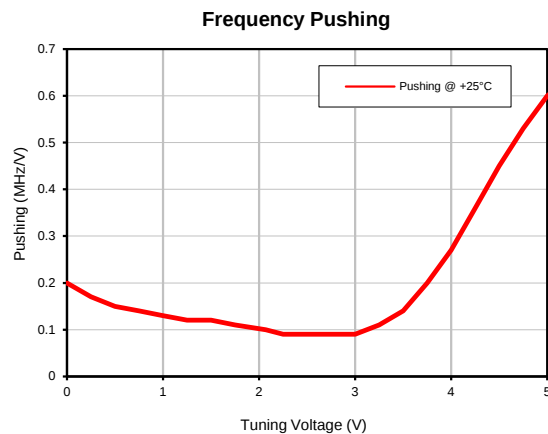
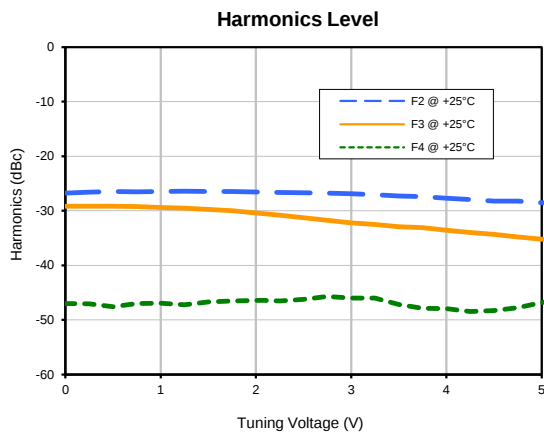
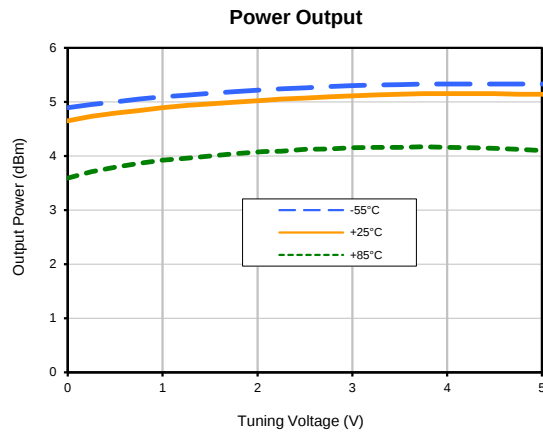
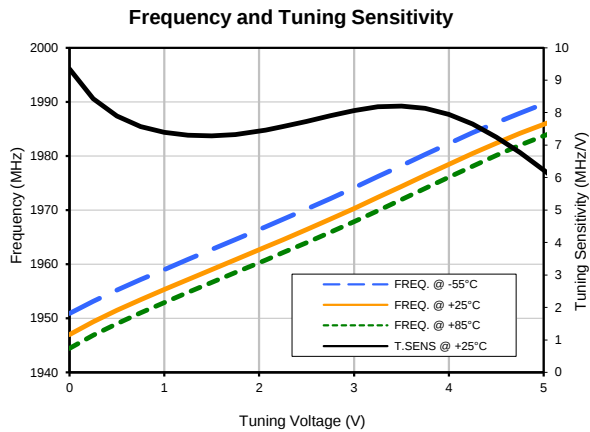
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Typical Performance Data



Notes

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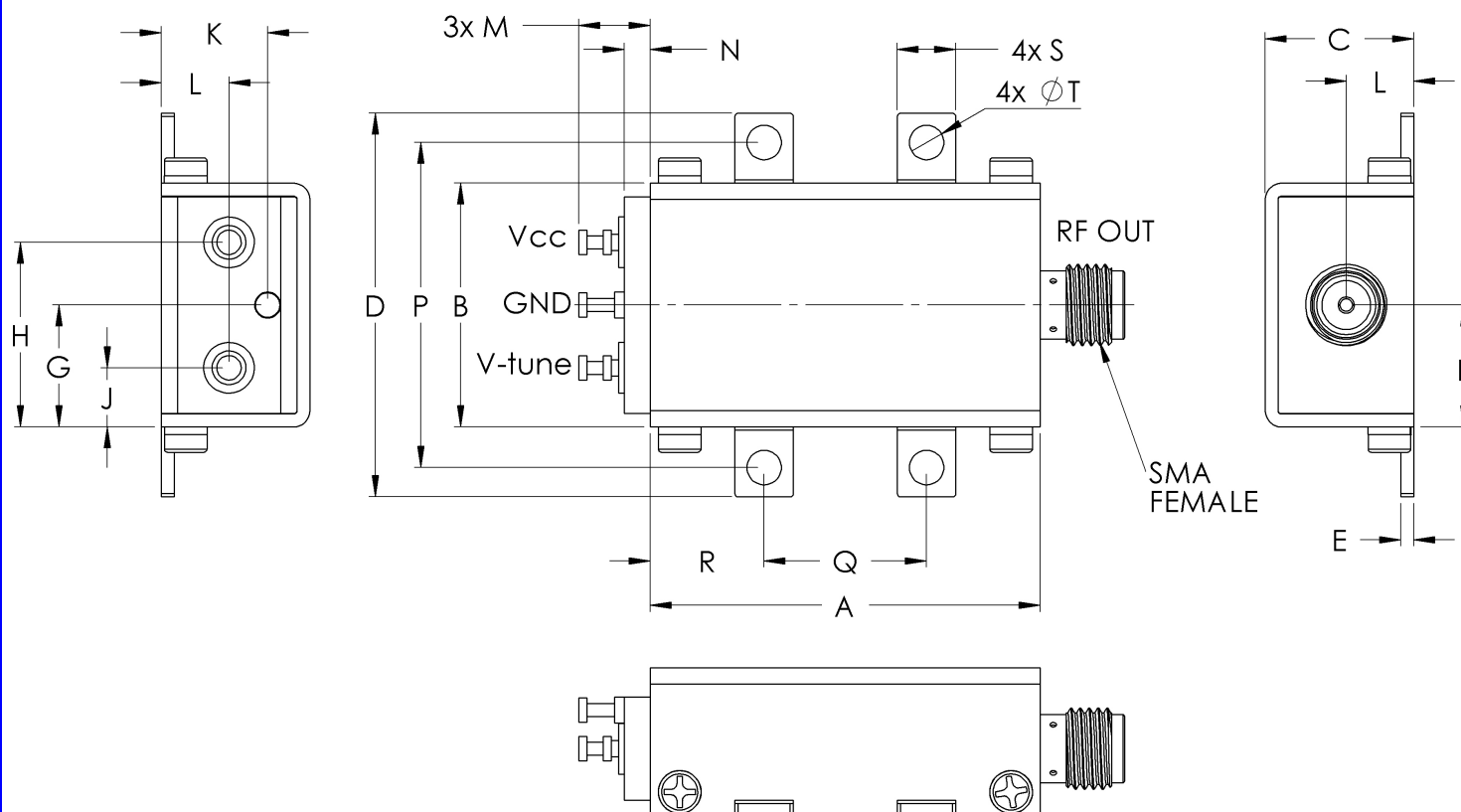


Case Style

GB

Outline Dimensions

GB956



CASE #.	A	B	C	D	E	F	G	H	J	K	L	M	N
GB956	1.20 (30.48)	.75 (19.15)	.46 (11.61)	1.18 (30.07)	.04 (1.02)	.38 (9.53)	.38 (9.53)	.57 (14.43)	.18 (4.62)	.33 (8.31)	.21 (5.28)	.22 (5.59)	.08 (2.03)

CASE #.	P	Q	R	S	T	WT GRAMS
GB956	1.00 (25.4)	.50 (12.7)	.35 (8.89)	.18 (4.57)	.106 (2.69)	35

Dimensions are in inches (mm). Tolerances: 2Pl. $\pm .03$; 3Pl. $\pm .015$
Tolerance on hole size and interaxes dimensions to be $\pm .005$.

Note:

- Case material: Brass
- Case finish: Nickel plate



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All Mini-Circuits products are manufactured under exacting quality assurance and control standards, and are capable of meeting published specifications after being subjected to any or all of the following physical and environmental test.

Specification	Test/Inspection Condition	Reference/Spec
Operating Temperature	-55° to 85°C Ambient Environment	Individual Model Data Sheet
Storage Temperature	-55° to 100° C Ambient Environment	Individual Model Data Sheet
Barometric Pressure	100,000 Feet	MIL-STD-202, Method 105, Condition D
Humidity	90% RH, 65°C Units may require bake-out after humidity to restore full performance.	MIL-STD-202, Method 103
Thermal Shock	-65° to 125°C, 5 cycles	MIL-STD-202, Method 107, Condition B
Vibration (High Frequency)	20g peak, 10-2000 Hz, 12 times in each of three perpendicular directions (total 36)	MIL-STD-202, Method 204, Condition D
Mechanical Shock	100g, 6ms sawtooth, 3 shocks each direction 3 axes (total 18)	MIL-STD-202, Method 213, Condition I