

# QUARTZ CRYSTALS ■ LOW FREQUENCY ■ MODELS SX-1H/SX-1V

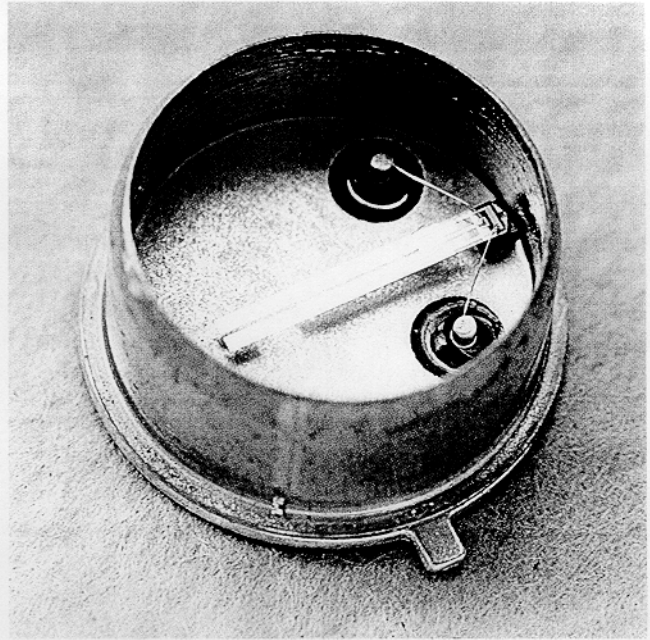
## FEATURES

- Low cost
- 10 kHz to 350 kHz
- Hermetically sealed TO-5 can
- 17 Stock frequencies
- Low aging

## APPLICATIONS

SX-1H CRYSTAL used in series resonant oscillator circuits (two inverters).

SX-1V CRYSTAL for parallel resonant (Pierce) oscillator circuits (single inverter).



## SPECIFICATION SUMMARY<sup>1</sup>

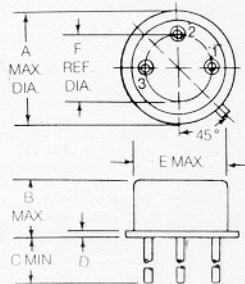
		SX-1Series			
Frequency Range		10-24.9	25-49.9	50-149.9	150-350
Calibration Tolerance at 25°C	Calibration A	±0.01%	±0.01%	±0.02%	±0.02%
	Calibration B	±0.03%	±0.03%	±0.05%	±0.05%
Frequency <sup>2</sup> Variation (%)	0-70 °C	-0.01	-0.007	-0.013	-0.03
	-40 + 85 °C	-0.02	-0.014	-0.02	-0.07
Series Resistance (K ohms)	SX-1H	1100-400	850-350	350-55	55
	SX-1V	300-95	160-70	70-20	20-15
Motional Capacitance fF		2.8-1.7	.73-5	.5	.3
Shunt Capacitance pf		1.0	.6	.5-1.0	.4-9
Q (1,000's)	SX-1H	5-10	16-18	18-33	30-70
	SX-1V	19-40	55-90	90-100	100-250
Maximum Drive Level		0.5 μW	1.0 μW	1.0 μW	0.5 μW
First Year Aging at 25°C (ppm)		10	10	10	10
Shock and Vibration		1,000 g's, 1 ms ½ sine wave; 10 g's rms 10 to 2000 Hz random			
Stock Frequencies		10, 12.8, 15.36, 16.0, 16.384, 19.2, 30.72, 31.5, 32.768, 38.4, 40, 40.96, 60, 76.8, 100, 153.6, 240			

<sup>1</sup> Specifications are typical unless otherwise indicated. Subject to change without notice.

<sup>2</sup> Does not include calibration tolerance. Positive variations small compared to negative variations.

<sup>3</sup> Non-stock frequencies 10 to 350 kHz available; contact factory.

TO-5 TOP VIEW



SX-1V, SX-1H

Pin	Connection	Dim	Inches	Millimeters
1	Input	A	0.362	9.19
2	Output	B	0.185	4.70
3	Gnd.	C	0.500	12.70
		D	0.029	0.74
		E	0.326	8.28
		F	0.200	5.08

1. All metal parts are gold plated.

2. Leads are 0.019" (0.48mm) dia. (max.)