



Clock Oscillator HS-169 Single Frequency Oscillator 53.125 MHz

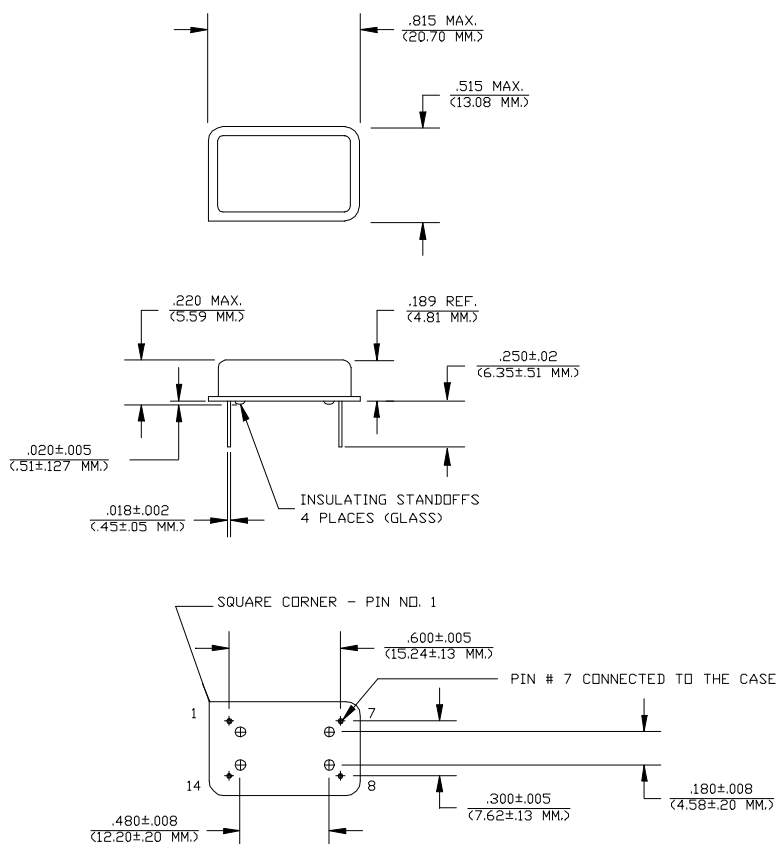
Description

The HS-169 series crystal oscillator has a single output frequency.

Features

- Frequency tolerance, $\pm 100\text{ppm}$ overall 0 to 70°C , power supply voltage variation, and 20 years aging
- Meets HP TACHYON Clock Generator
- Case at electrical ground
- Will withstand vapor phase temperatures of 253°C for 4 minutes maximum
- 0.220 inch maximum seated height
- All metal, resistance weld, hermetically sealed package
- High shock resistance, to 3000g
- Low power consumption

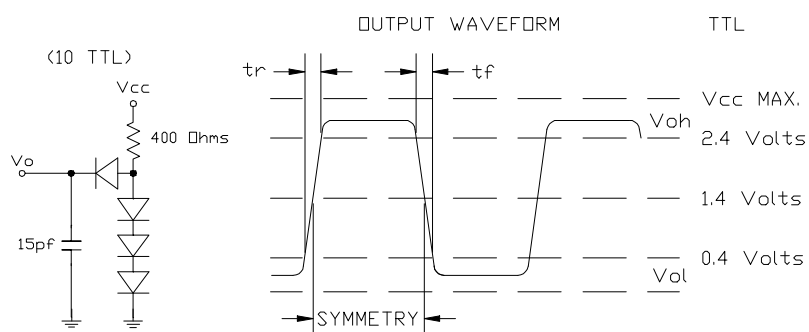
Pin	Connection
1	N.C.
7	Grd & Case
8	Output
14	V_{CC}



Continued
Clock Oscillator HS-169
Single Frequency Oscillator
53.125 MHz

Operating Conditions and Output Characteristics

	PARAMETER	CONDITIONS	MINIMUM	MAXIMUM
General Characteristics	Supply voltage (V_{CC})	-----	4.75V	5.25V
		Breakdown	-0.5V	+7.0V
	Supply current (I_{CC})	V_{CC} or ground current	0.0 mA	60 mA
	Output current (I_O)	Low level output current	0.0 mA	± 25.0 mA
	Operating temperature (T_A)	-----	0°C	70°C
	Storage temperature (T_S)	-----	-55°C	125°C
	Power dissipation (P_D)	-----	-----	315 mW
	Lead temperature (T_L)	Soldering, 10 sec	-----	300°C
Output Characteristics	Symmetry	@1.4V, 53.125 MHz	45/55%	55/45%
	Logic 0 (V_{OL})	Driving equiv. load	0.3V typ	0.4V
	Logic 1 (V_{OH})	Driving equiv. load	2.4V	4.0V typ
	Logic 0 (I_{OL} sink)	Driving equiv. load	-----	16.0 mA
	Logic 1 (I_{OH} source)	Driving equiv. load	-----	0.4 mA
	Rise & fall time (t_r, t_f)	0.4V to 2.4V	-----	2.8 ns
	Start time (T_{on})	-----	-----	3 ms



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