

Crystal Clock Oscillator

- Gull wings optional
- Wide frequency range
- Optional tristate

Series **C11**

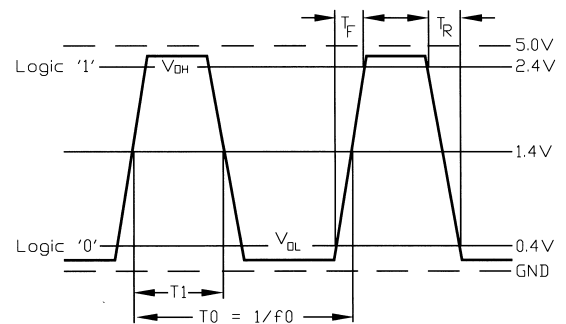
Part Numbering Example: C11 00 4 45 - A2 - 50.0 TS

C11	00	4	45	A2	50.0	TS
SERIES	STABILITY	PACKAGE STYLE	SYMMETRY	OPERATING TEMP.	FREQUENCY	
C11	00 = ±100 ppm 50 = ± 50 ppm 25 = ± 25 ppm 10 = ± 10 ppm	1 = Full Size 3 = Full Size, Gull Wing 4 = Half Size 6 = Half Size, Gull Wing	Blank = 40/60% 45 = 45/55%	Blank = 0°C ~ +70°C A2 = -40°C ~ +85°C		Blank = No Connection TS = Tristate, pin 1

Specifications:

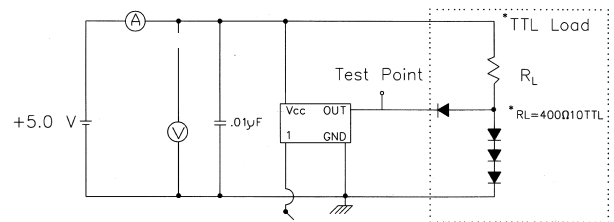
Frequency Range:	1.000 MHz to 100 MHz
Available Stability Options:	±100 ppm ±50 ppm ±25 ppm ±10 ppm
Output Series:	TTL
Input Voltage:	+5.0 VDC ±10%
Operating Temperature Range Options:	-10°C to +70°C -40°C to +85°C
Output Voltage:	1.000 to 24.999 MHz V _{OL} =0.4 V Max. V _{OH} =2.4 V Min. 25.000 to 100.000 MHz V _{OL} =0.5 V Max. V _{OH} =2.4 V Min.
Output Load:	10 TTL
Maximum Input Current:	15 mA (1.000 to 7.999 MHz) 30 mA (8.000 to 24.999 MHz) 70 mA (25.000 to 69.999 MHz) 80 mA (70.000 to 100.000 MHz)
Maximum Rise/Fall Time:	10 ns (1.000 to 24.999 MHz) 5 ns (25.000 to 69.999 MHz) 4 ns (70.000 to 100.000 MHz)
Duty Cycle:	40/60% 45/55%
Max. Start-Up Time:	35 ms (1.000 to 3.999 MHz) 30 ms (4.000 to 7.999 MHz) 20 ms (8.000 to 19.999 MHz) 15 ms (20.000 to 100.000 MHz)
Tristate Input:	+0.40 VDC Max. to Disable +2.40 VDC Min. to Enable or Open to Enable
Storage Temperature:	-55°C to +125°C

OUTPUT WAVE FORM



$$\text{SYMMETRY} = \left(\frac{T_1}{T_0} \right) \times 100\%$$

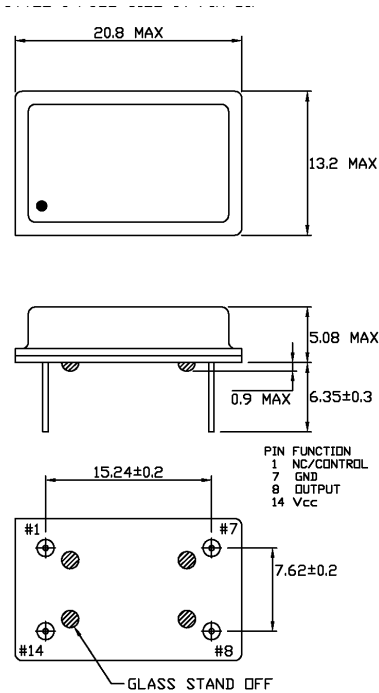
TEST CIRCUIT



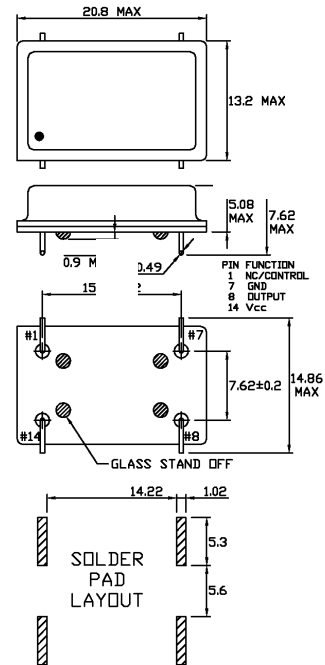
*Includes stray and probe capacitance (15pF TYP)

Dip Oscillator Package Dimensions

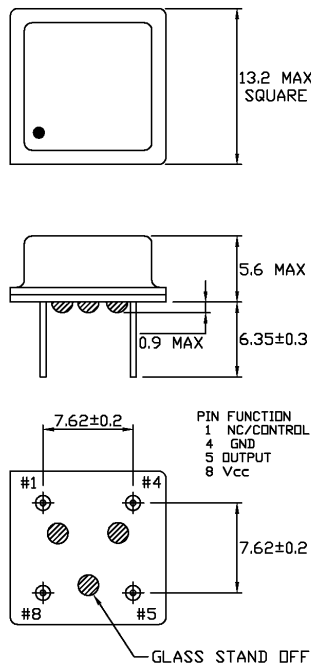
Style 1 Full Size 14 Pin Dip



Style 3 Full Size 14 Pin Dip Gull Wing



Style 4 Half Size 8 Pin Dip



Style 6 Half Size 8 Pin Dip Gull Wing

