Crystal Clock Oscillator

Series CH11

- *50 pf load capable*
- *TTL and CMOS compatible*
- *3.3 VDC input available*
- *Optional tristate*

RoHS COMPLIANT 2002 / 95 / EC

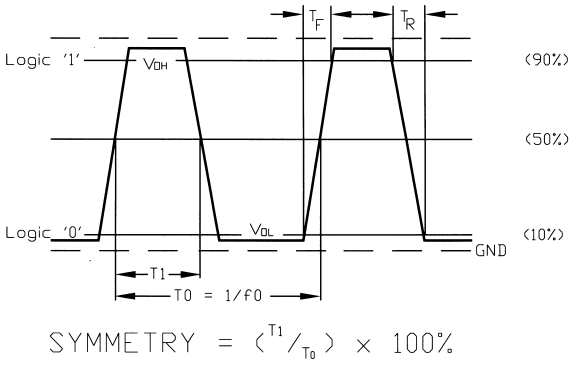
Part Numbering Example: CH11 00 4 L 45 - A2 - 50.0 TS

CH11	00	4	L	45	A2	50.0	TS
SERIES	STABILITY	PACKAGE STYLE	VOLTAGE	SYMMETRY	OPERATING TEMP.	FREQUENCY	
CH11	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 = 5V L = 3.3V	Blank = 40/60% 45 = 45/55%	Blank = 0°C ~ +70°C A2 = -40°C ~ +85°C		Blank = No Connection TS = Tristate, pin 1

Specifications:

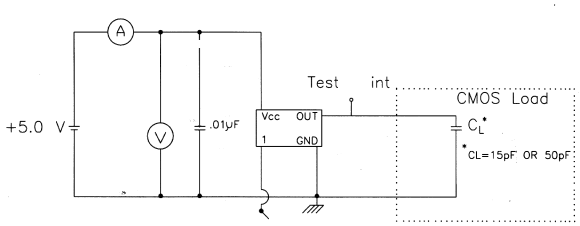
Frequency Range:	1.8432 MHz to 100.000 MHz
Available Stability Options:	±100 ppm *Standard* ±50 ppm ±25 ppm ±10 ppm
Output Series:	TTL/CMOS
Input Voltage:	+5.0 VDC ±10% *Standard* +3.3 VDC ±10%
Operating Temperature Range Options:	-10°C to +70°C *Standard* -40°C to +85°C
Output Voltage:	HCMOS V_{OL} = 10% V_{DD} V Max. HCMOS V_{OH} = 90% V_{DD} V Min.
Output Load:	10 TTL, 50 pf CMOS
Maximum Input Current:	25 mA (1.8432 to 24.999 MHz) 45 mA (25.000 to 49.999 MHz) 70 mA (50.000 to 69.999 MHz) 80 mA (70.000 to 100.000 MHz)
Maximum Rise/Fall Time:	7 ns
Duty Cycle:	40/60% *Standard* 45/55%
Max. Start-Up Time:	10 ms
Tristate Input:	@+5 VDC Input +0.80 VDC Max. to Disable +3.60 VDC Min. to Enable or Open to Enable @+3.3 VDC Input +0.80 VDC Max. to Disable +2.20 VDC Min. to Enable or open to Enable
Storage Temperature:	-55°C to +125°C

OUTPUT WAVE FORM



SYMMETRY = $(T_1/T_0) \times 100\%$

TEST CIRCUIT



*Includes stray and probe capacitance (15pF TYP)

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