

SERIES CO6 AND CO12

FEATURES

- STANDARD 8 AND 14 PIN DIP PACKAGE
- TOLERANCE AND STABILITY TO ± 25 PPM
- EXCELLENT CLOCK FOR 16 AND 32 BIT PROCESSORS
- LOW COST
- AVAILABLE IN 3.3 VOLT

SPECIFICATIONS

SERIES		CO6	CO12
PACKAGE		14 PIN DIP	8 PIN DIP
FREQUENCY RANGE		500.00 KHz TO 125.00 MHz	500.00 KHz TO 125.00 MHz
FREQUENCY STABILITY†		CO6100 : ± 100 PPM	CO12100 : ± 100 PPM
		CO6050 : ± 50 PPM	CO12050 : ± 50 PPM
		CO6025 : ± 25 PPM	CO12025 : ± 25 PPM
OPERATING TEMPERATURE RANGE		0° C TO +70° C STANDARD -40° C TO 85° C EXTENDED	0° C TO +70° C STANDARD -40° C TO 85° C EXTENDED
STORAGE TEMPERATURE RANGE		-55° C TO +125° C	-55° C TO +125° C
INPUT	VOLTAGE††	+5 VDC ± 0.5 VDC	+5 VDC ± 0.5 VDC
	CURRENT (MAX)	500 KHz TO 19.999 MHz: 20 mA	500 KHz TO 19.999 MHz: 20 mA
		20 MHz TO 34.999 MHz: 30 mA	20 MHz TO 34.999 MHz: 30 mA
		35 MHz TO 69.999 MHz: 40 mA	35 MHz TO 69.999 MHz: 40 mA
		70 MHz TO 125 MHz: 60 mA	70 MHz TO 125 MHz: 60 mA
OUTPUT	SYMMETRY	40 TO 60% NORMAL 45 TO 55% TIGHT	40 TO 60% NORMAL 45 TO 55% TIGHT
	RISE AND FALL TIME (0.5 - 4.5 VDC)	UNDER 24 MHz : ± 10 ns MAX	UNDER 24 MHz : ± 10 ns MAX
		24 MHz TO 70 MHz : ± 6 ns MAX	24 MHz TO 70 MHz : ± 6 ns MAX
		70 MHz TO 125 MHz : ± 3 ns MAX	70 MHz TO 125 MHz : ± 3 ns MAX
	LOGIC "0" LEVEL	+0.5 V MAX. (10% VDD)	+0.5 V MAX. (10% VDD)
	LOGIC "1" LEVEL	+4.5 V MIN (90% VDD)	+4.5 V MIN (90% VDD)
LOAD†††		15 pF OR 10 LS TTL STANDARD	15 pF OR 10 LS TTL STANDARD

† FREQUENCY STABILITY INCLUSIVE OF ROOM TOLERANCE, FREQUENCY STABILITY OVER TEMPERATURE, 10% POWER SUPPLY VARIATION, AGING, SHOCK, AND VIBRATION

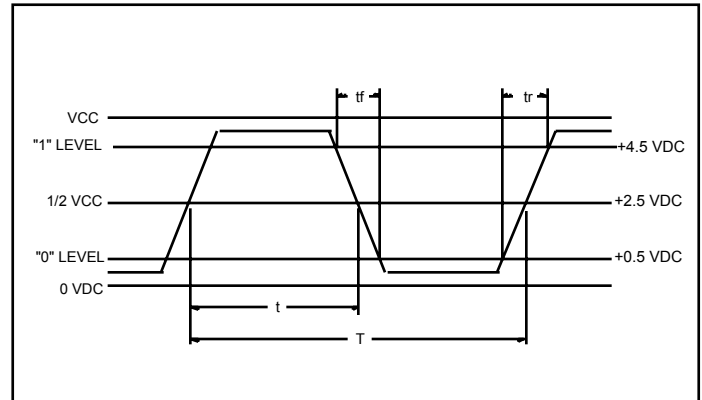
†† +3.3 VOLT VERSION IS AVAILABLE. CONSULT RAMI FOR SPECIFICATIONS

††† OUTPUT LOADS ALSO AVAILABLE AT 15 pF, 30 pF AND 50 pF. CONSULT RAMI FOR SPECIFICATIONS

ENVIRONMENTAL AND TECHNICAL CONDITIONS

ENVIRONMENTAL	
TEMPERATURE CYCLE	MIL-STD 883, METHOD 1010, 10 CYCLES -20° C TO 85° C
SHOCK	MIL-STD-202, METHOD 213, TEST CONDITION C
VIBRATION	MIL-STD-202, METHOD 204, TEST CONDITION A
RESISTANCE TO SOLDERING HEAT	MIL-STD-202, METHOD 210, TEST CONDITION B
HUMIDITY	85% RELATIVE HUMIDITY AT 85° C 250 HOURS
MECHANICAL	
GROSS LEAK TEST	MIL-STD-883, METHOD 1014, TEST CONDITION C
FINE LEAK TEST	MIL-STD-883, METHOD 1014, TEST CONDITION A
TERMINAL STRENGTH	MIL-STD-202, METHOD 211, TEST CONDITION A AND C
MARKING INK	EPOXY, HEAT CURED.
MOISTURE RESISTANCE	MIL-STD 202, METHOD 106, OMIT STEP 7B
SOLDERABILITY	MIL-STD-202, METHOD 208, 95% COVERAGE
SOLVENT RESISTANCE	MIL-STD-202, METHOD 2002, METHOD 215

OUTPUT WAVEFORMS



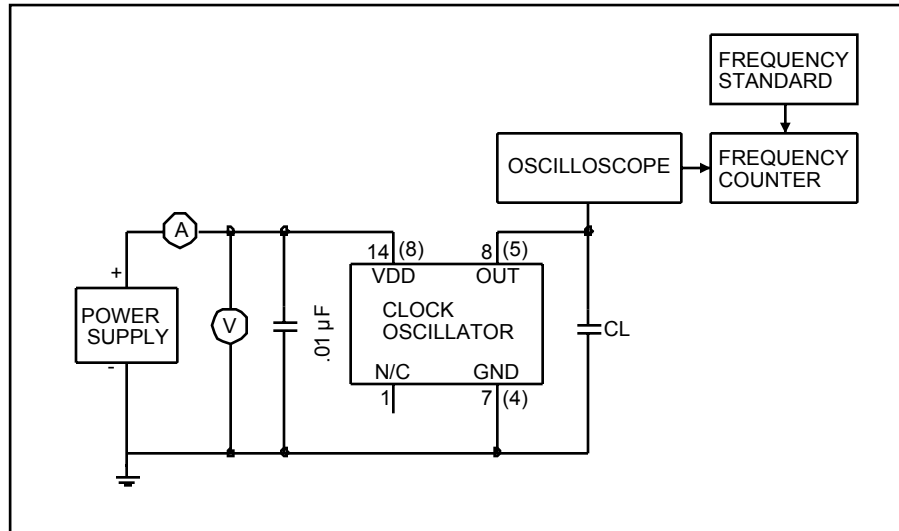
PART NUMBERING SYSTEM

SERIES		FREQUENCY STABILITY		-	FREQUENCY	-	EXTENDED TEMPERATURE	-	SYMMETRY		-	OPTIONS	
CO6 CO12	(14 PIN DIP) (8 PIN DIP)	100 050 025	± 100 PPM ± 50 PPM ± 25 PPM		IN MHz		EXT		T	TIGHT SYMMETRY		TR GW 3.3	TAPE AND REEL* GULL WING +3.3 V

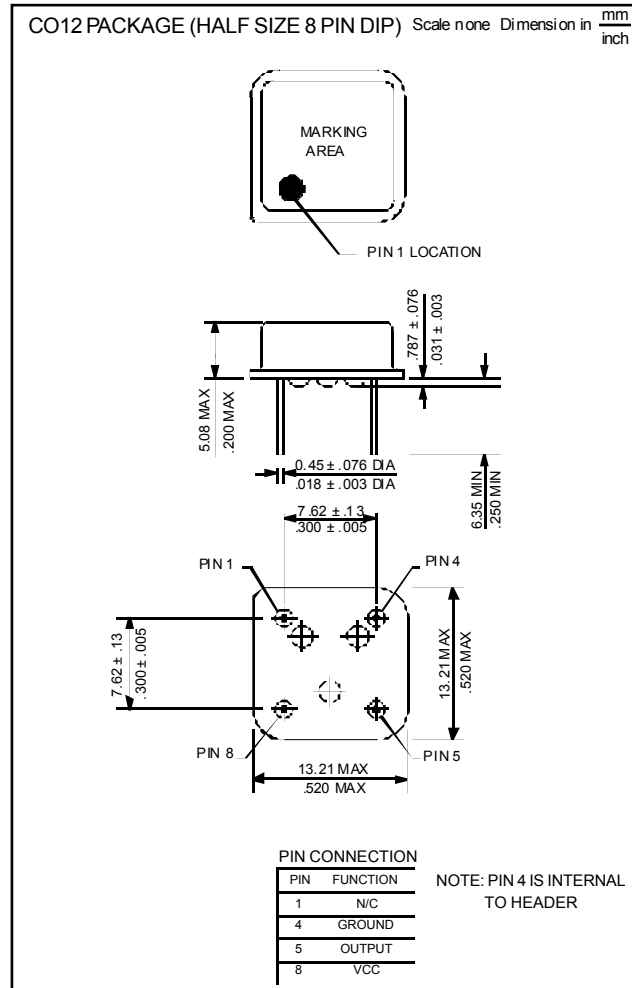
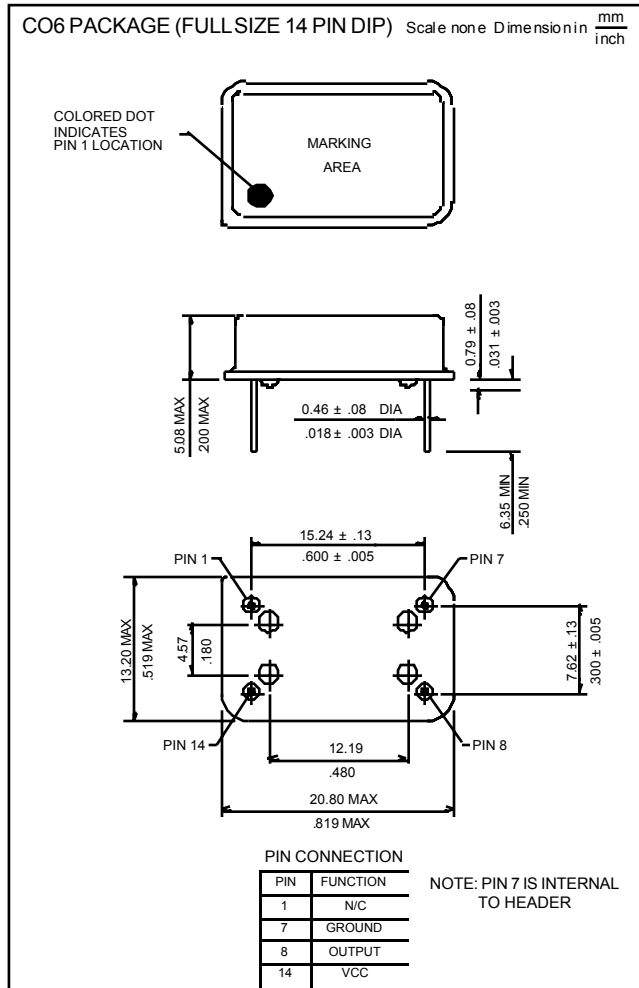
EXAMPLE: CO6100-10.000-EXT-T, CO12050-32.000-EXT-T-TR

* Available for Gull Wing only

● TEST CIRCUIT



● DIMENSIONS



● PACKAGING

14 PIN DIP: 25 PIECES PER ELECTROSTATIC TUBE

8 PIN DIP: 40 PIECES PER ELECTROSTATIC TUBE