SERIES CO15 AND CO19

FEATURES

- WIDE FREQUENCY RANGE
- EXCELLENT FOR 16 AND 32 BIT MPU'S
- 3-STATE FUNCTION

SPECIFICATIONS

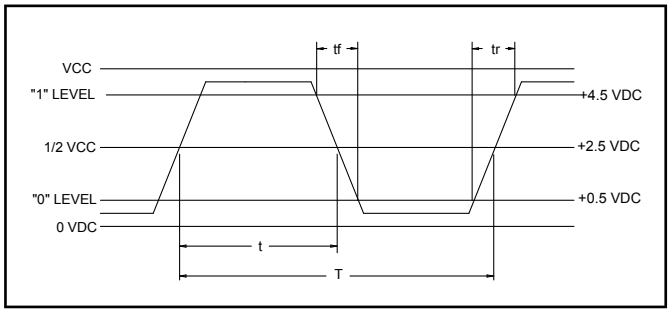
SERIES		CO15	C019
PACKAGE		14 PIN DIP	8 PIN DIP
FREQUENCY RANGE		500 KHz TO 100.00 MHz	500 KHz TO 100.00 MHz
FREQUENCY STABILITY†		CO15100 : ±100 PPM CO15050 : ±50 PPM CO15025 : ±25 PPM	CO19100 : ±100 PPM CO19050 : ±50 PPM CO19025 : ±25 PPM
OPERATING TEMPERATURE RANGE		0° C TO + 70° C STANDARD -40° CTO + 85° C EXTENDED	0° C TO + 70° C STANDARD -40° CTO + 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	60 mA MAX	60 mA MAX
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)	10 ns MAX - 500 KHz TO 25.00 MHz 6ns MAX - 25.10 MHz TO 70.00 MHz 4 ns MAX - 70.1 MHz TO 100.00 MHz	10 ns MAX - 500 KHz TO 25.00 MHz 6ns MAX - 25.10 MHz TO 70.00 MHz 4 ns MAX - 70.1 MHz TO 100.00 MHz
	LOGIC "0" LEVEL	+0.5 VDC MAX (10% VDD)	+0.5 VDC MAX (10% VDD)
	LOGIC "1" LEVEL	+4.5 V MIN (90% VDD)	+4.5 V MIN (90% VDD)
	LOAD††	1-10 TTL OR 15 pF CMOS	1-10 TTL OR 15 pF CMOS
ENABLE/DISABLE FUNCTION	CONTROL (PIN 1)	HIGH OR OPEN LOW	HIGH OR OPEN LOW
	OUTPUT (PIN 8 OR 5)	ENABLE : HIGH DISABLE (LOW) : HIGH IMPEDANCE	ENABLE : HIGH DISABLE(LOW) : HIGH IMPEDANCE

† 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 215

OUTPUT WAVEFORM



PART NUMBERING SYSTEM

SERIES		FREQUENCY STABILITY			FREQUENCY		EXTENDED TEMPERATURE		SYMMETRY			OPTIONS	
CO15 CO19	(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

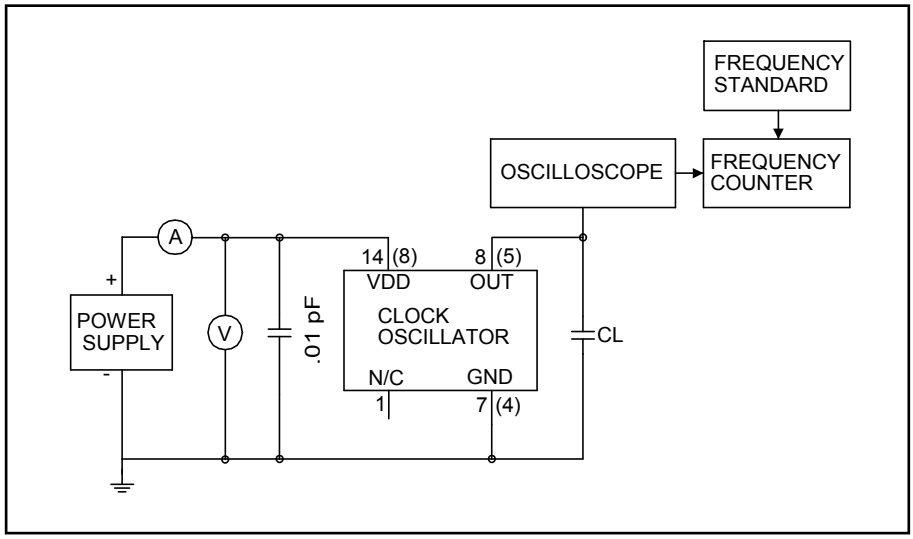
EXAMPLE: CO15100-12.000-EXT, CO19050-45.000-T

* Available for Gull Wing only

RAMI TECHNOLOGY 10651 NW 19th St. Miami, Florida 33172 U.S.A. Tel: 305-593-8000
Fax: 305-593-8487 e-mail: sales@ramitechnology.com web: www.ramitechnology.com

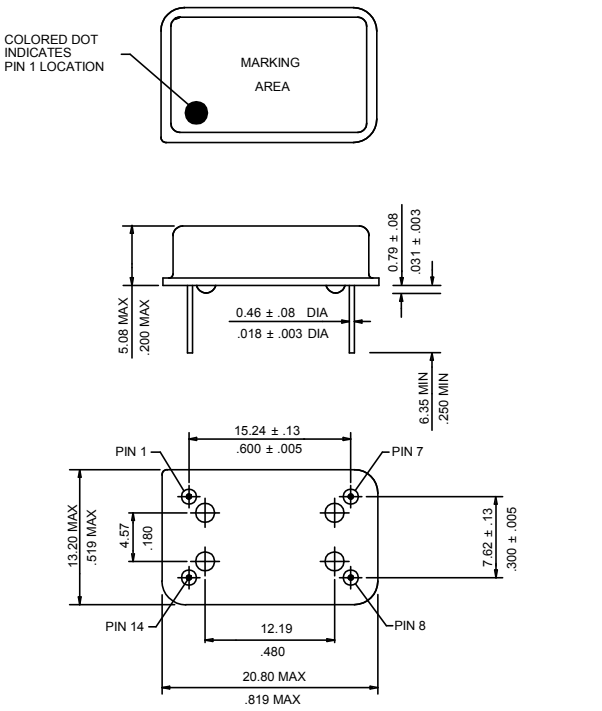
SERIES CO15 AND CO19

● TEST CIRCUIT



● OUTLINE DRAWINGS

CO15 PACKAGE (FULL SIZE 14 PIN DIP) Scale none Dimension in mm / inch

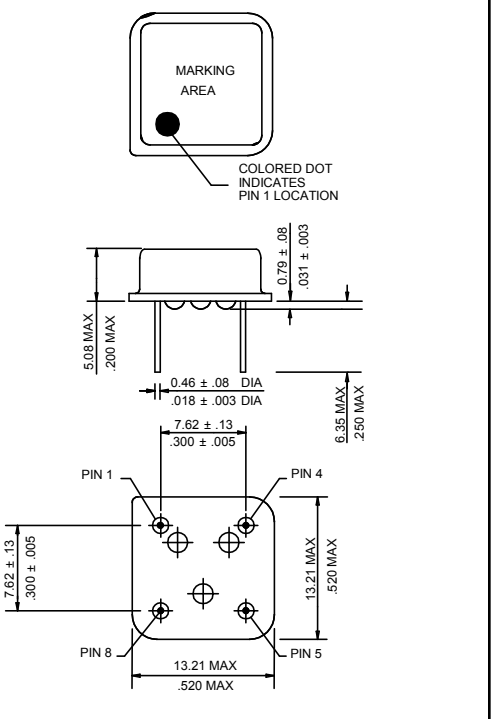


PIN CONNECTION

PIN	FUNCTION
1	E/D
7	GROUND
8	OUTPUT
14	VCC

NOTE: PIN 7 IS INTERNAL TO HEADER

CO19 PACKAGE (HALF SIZE 8 PIN DIP) Scale none Dimension in mm / inch



PIN CONNECTION

PIN	FUNCTION
1	E/D
4	GROUND
5	OUTPUT
8	VCC

NOTE: PIN 4 IS INTERNAL TO HEADER

● PACKAGING

14 PIN DIP: 25 PIECES PER PLASTIC TUBE
8 PIN DIP: 40 PIECES PER PLASTIC TUBE

RAMI TECHNOLOGY 10651 NW 19th St. Miami, Florida 33172 U.S.A. Tel: 305-593-8000
Fax: 305-593-8487 e-mail: sales@ramitechnology.com web: www.ramitechnology.com