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SERIES CO1 AND CO13

FEATURES

- STANDARD 8 AND 14 PIN DIP PACKAGE
- TOLERANCE AND STABILITY TO ±25 PPM
- LOW COST
- AVAILABLE IN 3.3 VOLT

SPECIFICATIONS

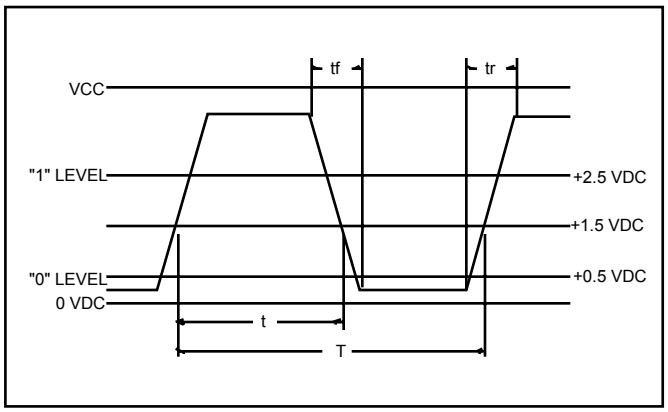
SERIES		CO1	CO13
PACKAGE		14 PIN DIP	8 PIN DIP
FREQUENCY RANGE		500.00 KHz TO 125.00 MHz	500.00 KHz TO 125.00 MHz
FREQUENCY STABILITY†		CO1100 : ±100 ppm	CO13100 : ±100 ppm
		CO1050 : ±50 ppm	CO13050 : ±50 ppm
		CO1025 : ±25 ppm	CO13025 : ±25 ppm
OPERATING TEMPERATURE RANGE		0° C TO +70° C STANDARD -40° 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)	500.00 KHz TO 2.999 MHz: 30 mA	500.00 KHz TO 2.999 MHz: 30 mA
		3.00 MHz TO 31.999 MHz: 50 mA	3.00 MHz TO 31.999 MHz: 50 mA
		32.00 MHz TO 79.999 MHz: 70 mA	32.00 MHz TO 79.999 MHz: 70 mA
		80.00 MHz TO 125.00 MHz: 80 mA	80.00 MHz TO 125.00 MHz: 80 mA
OUTPUT	SYMMETRY (AT 1.4 VDC LEVEL)	40 TO 60% NORMAL 45 TO 55% TIGHT	40 TO 60% NORMAL 45 TO 55% TIGHT
	RISE AND FALL TIME (0.4 - 2.4 VDC)	UNDER 9 MHz : ±15 ns MAX	UNDER 9 MHz : ±15 ns MAX
		9 MHz TO 32 MHz : ±10 ns MAX	9 MHz TO 32 MHz : ±10 ns MAX
		32 MHz TO 80 MHz : ±6 ns MAX	32 MHz TO 80 MHz : ±6 ns MAX
		80 MHz TO 125 MHz : ±4 ns MAX	80 MHz TO 125 MHz : ±4 ns MAX
	LOGIC "0" LEVEL	+0.5 V MAX, SINK TO 16 mA	+0.5 V MAX, SINK TO 16 mA
	LOGIC "1" LEVEL	+2.4 V MIN, SOURCE 0.4 mA	+2.4 V MIN, SOURCE 0.4 mA
	LOAD†††	1 TO 10 TTL STANDARD	1 TO 10 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 RALTRON FOR SPECIFICATIONS
††† OUTPUT LOADS ALSO AVAILABLE AT 15 pF, 30 pF AND 50 pF. CONSULT RALTRON 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 WAVEFORM



PART NUMBERING SYSTEM

SERIES		FREQUENCY STABILITY		-	FREQUENCY	-	EXTENDED TEMPERATURE	-	SYMMETRY		-	OPTIONS	
CO1 CO13	(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: CO1100-20.000-EXT-T, CO13050-32.000-T-TR

* Available for Gull Wing only

Raltron Electronics Corporation 10651 NW 19th St. Miami, Florida 33172 U.S.A.
Tel: 305-593-6033 Fax: 305-594-3973 e-mail: sales@raltron.com Internet: http://www.raltron.com

Для заказа отправьте заявку на почту: mail@kvarci.ru

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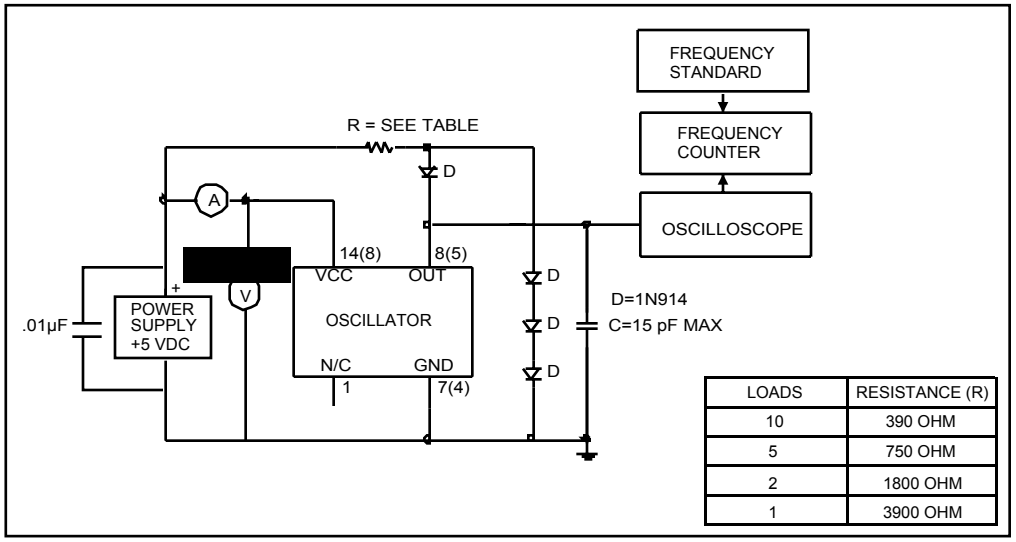
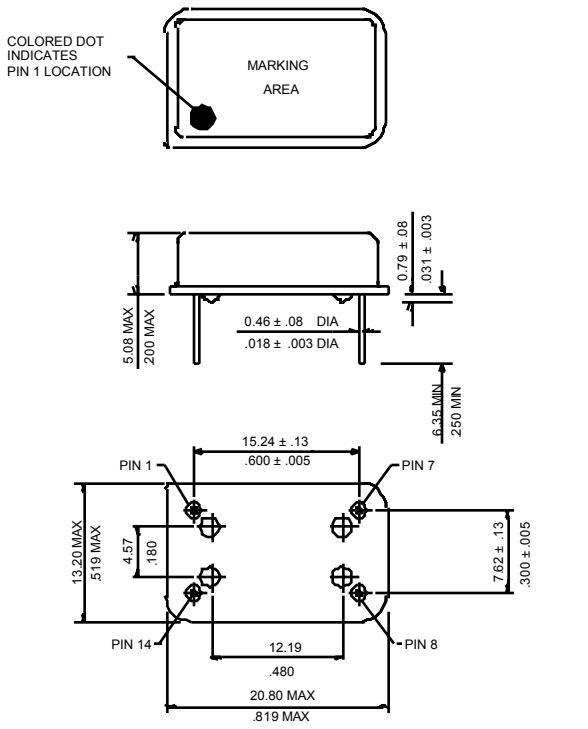
TEST CIRCUIT



LOADS	RESISTANCE (R)
10	390 OHM
5	750 OHM
2	1800 OHM
1	3900 OHM

OUTLINE DRAWINGS

CO1 PACKAGE (FULL SIZE 14 PIN DIP) Scale none Dimension in mm / inch

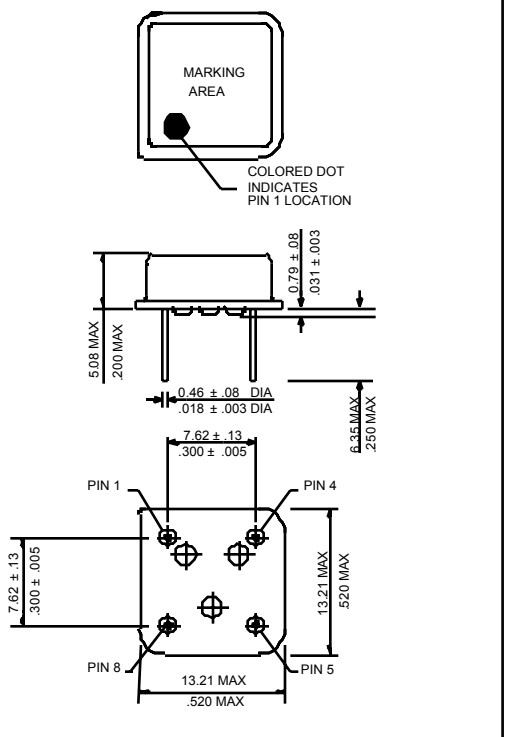


PIN CONNECTION

PIN	FUNCTION
1	N/C
7	GROUND
8	OUTPUT
14	VCC

NOTE: PIN 7 IS INTERNAL TO HEADER

CO13 PACKAGE (HALF SIZE 8 PIN DIP) Scale none Dimension in mm / inch



PIN CONNECTION

PIN	FUNCTION
1	N/C
4	GROUND
5	OUTPUT
8	VCC

NOTE: PIN 4 IS INTERNAL TO HEADER

PACKAGING

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

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Tel: 305-593-6033 Fax: 305-594-3973 e-mail: sales@raltron.com Internet: http://www.raltron.com

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