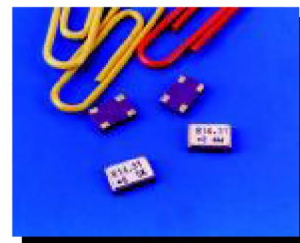


## ● FEATURES

- ULTRA SMALL PACKAGE
- EXCELLENT FOR HIGH DENSITY PACKAGING
- SUITABLE FOR REFLOW SOLDERING

## ● SPECIFICATIONS

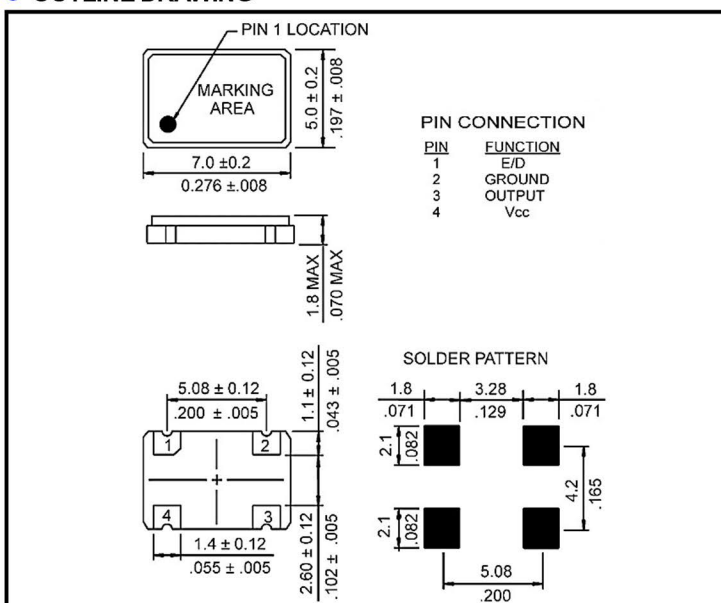
| SERIES                  |                             | CO43  | CO46   |
|-------------------------|-----------------------------|---|--|
| PARAMETER               |                             |   |  |
| FREQUENCY RANGE         |                             | 1.000 MHz TO 50.000 MHz   | 50.000 MHz TO 156.250 MHz                        |
| FREQUENCY STABILITY †   |                             | ±100 PPM<br>±50 PPM<br>±25 PPM *<br>±20 PPM *   |  |
| TEMPERATURE RANGE       | OPERATING                   | -10°C TO +70°C  |  |
|                         | EXTENDED                    | -40°C TO +85°C  |  |
|                         | STORAGE                     | -55°C TO +125°C   |  |
| INPUT                   | VOLTAGE                     | +3.3 VDC ±10%   |  |
|                         | CURRENT, MAX                | 25 mA MAX   | 45 mA MAX  |
| OUTPUT                  | LOAD                        | 5 TTL MAX OR 15 pF CMOS   |  |
|                         | SYMMETRY                    | NORMAL: 40% TO 60%<br>TIGHT: 45% TO 55%   |  |
|                         | LEVEL                       | LOGIC "0": 0.4 VDC MAX<br>LOGIC "1": 2.8 VDC MIN  | LOGIC "0": 0.5 VDC MAX<br>LOGIC "1": 2.8 VDC MIN |
|                         | RISE/FALL TIME (20% to 80%) | 1.00 MHz TO 10.00 MHz: 5 ns<br>10.10 MHz TO 30.00 MHz: 4 ns<br>30.10 MHz TO 50.00 MHz: 3 ns<br>50.10 MHz TO 80.00 MHz: 2.5 ns<br>80.10 MHz TO 156.250 MHz: 2 ns |  |
| JITTER                  |                             | 1.0 ps RMS (1σ), 12kHz < Fj < 20MHz   |  |
| ENABLE/DISABLE FUNCTION |                             | PIN 1: HIGH (+2.2 VDC MIN) PIN 3: ENABLED<br>PIN 1: LOW (+0.8 VDC MAX) PIN 3: DISABLED (HIGH IMPEDANCE)   |  |



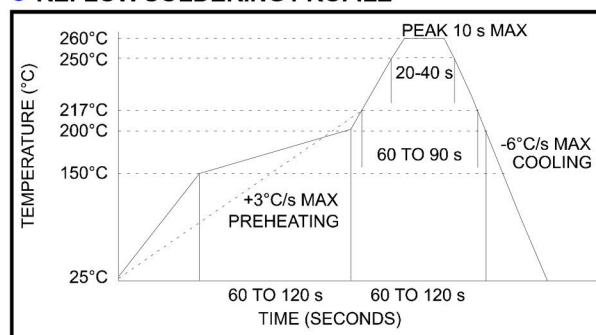
† INCLUSIVE OF 25°C TOLERANCE, OPERATING TEMPERATURE RANGE, VOLTAGE OR LOAD CHANGES, AGING, SHOCK AND VIBRATION

\* STABILITY OVER TEMPERATURE ONLY AT -40°C TO +85°C

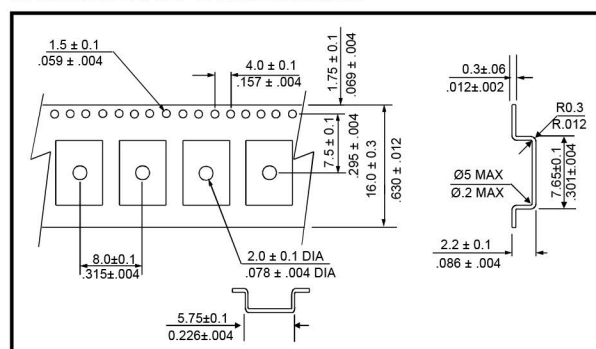
## ● OUTLINE DRAWING



## ● REFLOW SOLDERING PROFILE



## ● CARRIER TAPE DIMENSIONS



## ● PACKAGING

254 mm REEL DIAMETER, 16mm TAPE WIDTH, 8mm PITCH  
QUANTITY: 1000 PIECES PER REEL

## ● PART NUMBERING SYSTEM

| SERIES | FREQUENCY STABILITY | FREQUENCY | EXTENDED TEMPERATURE             | TIGHT SYMMETRY               | TAPE AND REEL |
|--------|---------------------|-----------|----------------------------------|------------------------------|---------------|
| CO43   | 10 ±100 PPM         | IN MHz    | EXT<br>EXTENDED (-40°C TO +85°C) | T<br>TIGHT SYMMETRY (45-55%) | TR            |
| CO46   | 05 ±50 PPM          |           |                                  |                              |               |
|        | 025 ±25 PPM         |           |                                  |                              |               |
|        | 02 ±20 PPM          |           |                                  |                              |               |

EXAMPLE: CO4305-32.000-TR, CO4610-50.000-T-TR

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