

**SURFACE MOUNT CLOCK OSCILLATORS**

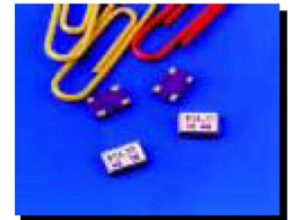
**SERIES CO47, 48 AND 49**

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



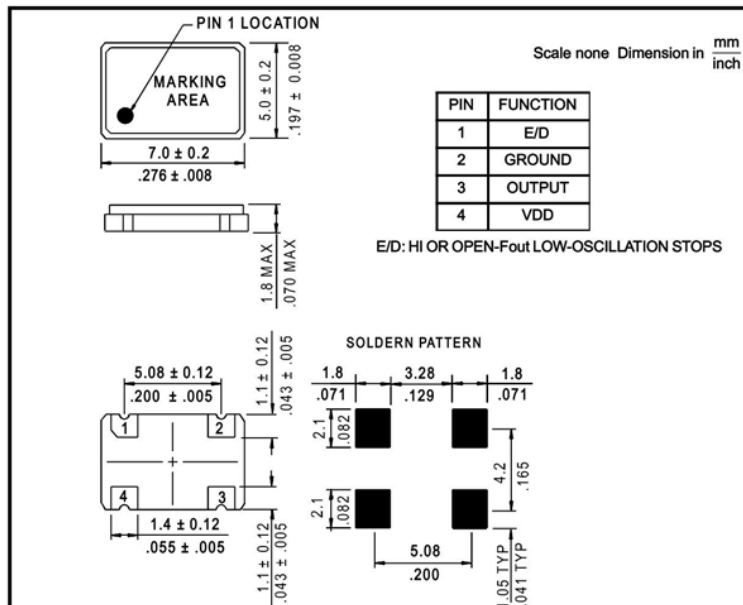
● **SPECIFICATIONS**

SERIES		CO47	CO48	CO49
PARAMETER				
FREQUENCY RANGE		50.10 MHz TO 125.00 MHz	1.000 MHz TO 50.00 MHz	
FREQUENCY STABILITY †			±100 PPM ±50 PPM ±25 PPM ±20 PPM	
TEMPERATURE RANGE	OPERATING	-10°C TO +70°C		
	EXTENDED	-40°C TO +85°C		
	STORAGE	-55°C TO +125°C		
INPUT	VOLTAGE	+5.0 VDC ±10%		
	CURRENT	50 mA MAX	25 mA MAX	45 mA MAX
OUTPUT	LOAD	50 TO 100 MHz: 10 TTL OR 25 pF 101 TO 125 MHz: 5 TTL OR 15 pF	10 LS TTL MAX OR 15 pF	10 TTL MAX OR 50 pF
	SYMMETRY	NORMAL: 40% TO 60% TIGHT: 45% TO 55%		
	LEVEL	LOGIC "0": 0.5 VDC MAX LOGIC "1": 4.0 VDC MIN	LOGIC "0": 0.5 VDC MAX LOGIC "1": 0.9 x V <sub>cc</sub> MIN	
	RISE/FALL TIME (20% to 80%)	1.00 MHz TO 10.00 MHz: 5 ns 10.10 MHz TO 30.00 MHz: 4 ns 30.10 MHz TO 50.00 MHz: 3 ns 50.10 MHz TO 80.00 MHz: 2.5 ns 80.10 MHz TO 156.25 MHz: 2 ns		
ENABLE / DISABLE FUNCTION		PIN 1: HIGH (+2.2 VDC MIN) PIN 3: ENABLED PIN 1: LOW (+0.8 VDC MAX) PIN 3: DISABLED (HIGH IMPEDANCE)		



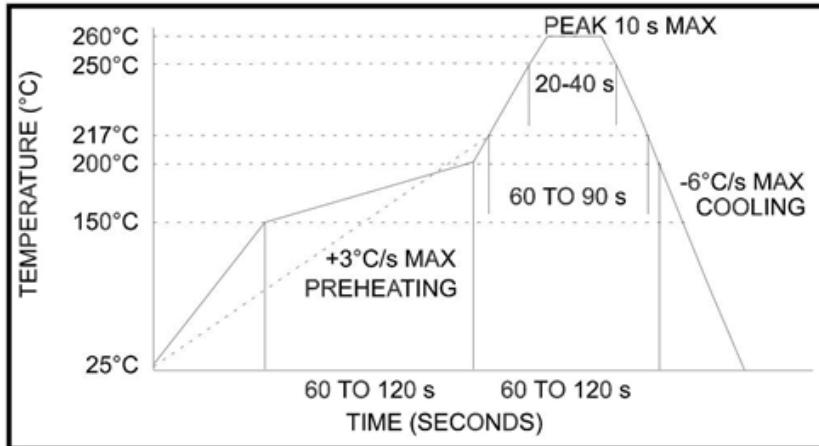
† INCLUSIVE OF 25 C TOLERANCE, OPERATING TEMPERATURE RANGE, VOLTAGE OR LOAD CHANGES, AGING, SHOCK AND VIBRATION

● **OUTLINE DRAWING**

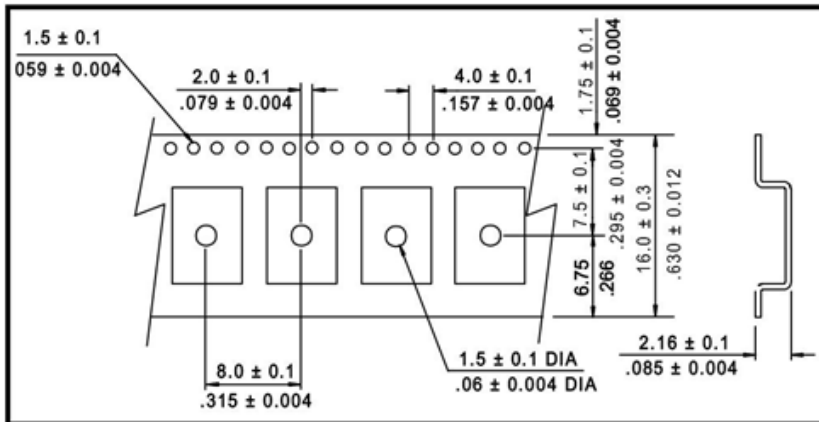




## REFLOW SOLDERING PROFILE



## CARRIER TAPE DIMENSIONS



## PACKAGING

254 mm REEL DIAMETER, 16mm TAPE WIDTH, 8mm PITCH  
 QUANTITY: 1000 or 3000 PIECES PER REEL

## PART NUMBERING SYSTEM

SERIES	FREQUENCY STABILITY		FREQUENCY	EXTENDED TEMPERATURE	TIGHT SIMMETRY	TAPE AND REEL
CO47 CO48 CO49	10 05 02	±100 PPM ±50 PPM ±25 PPM ±20 PPM	- IN MHz	- EXT EXTENDED (-40°C TO +85°C)	- T TIGHT SYMMETRY (45% TO 55%)	- TR

EXAMPLE: CO4710-60.000-TR, CO4805-32.000-T-TR, CO4910-45.000-EXT-T-TR