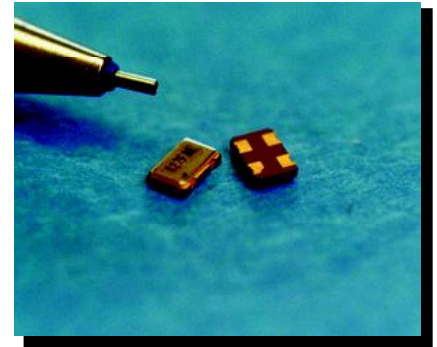


### FEATURES

- ULTRA SMALL PACKAGE
- AVAILABLE IN 5.0 V OR 3.0 V
- ENABLE/DISABLE FUNCTION

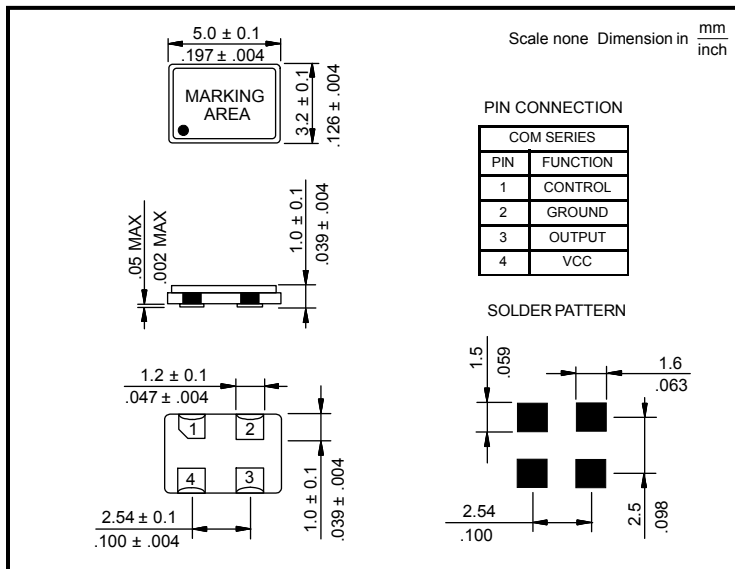
### SPECIFICATIONS

| SERIES                      | COM25                                                                      | COM23                                                                                                                                               |
|-----------------------------|----------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------|
| FREQUENCY RANGE             | 1.544 MHz TO 125.000 MHz                                                   | 1.544 MHz TO 156.000 MHz                                                                                                                            |
| FREQUENCY STABILITY†        | COM2510 : ±100 ppm                                                         | COM2310 : ±100 ppm                                                                                                                                  |
|                             | COM2505 : ±50 ppm                                                          | COM2305 : ±50 ppm                                                                                                                                   |
|                             | COM2503 : ±30 ppm                                                          | COM2303 : ±30 ppm                                                                                                                                   |
| OPERATING TEMPERATURE RANGE | -10° C TO +70° C                                                           | -10° C TO +70° C                                                                                                                                    |
| STORAGE TEMPERATURE RANGE   | -25° C TO +85° C                                                           | -25° C TO +85° C                                                                                                                                    |
| INPUT                       | VOLTAGE                                                                    | +5 VDC ±0.5 VDC                                                                                                                                     |
|                             | CURRENT (MAX)                                                              | 1.544 MHz TO 9.99 MHz: 15 mA MAX<br>10.00 MHz TO 34.999 MHz: 20 mA MAX<br>35.00 MHz TO 49.999 MHz: 35 mA MAX<br>50.00 MHz TO 125.000 MHz: 40 mA MAX |
| OUTPUT                      | SYMMETRY                                                                   | 40 TO 60% AT 0.5 VCC                                                                                                                                |
|                             | RISE AND FALL TIME                                                         | 10 ns MAX                                                                                                                                           |
|                             | LOGIC "0" LEVEL                                                            | VCC X 0.1 V MAX                                                                                                                                     |
|                             | LOGIC "1" LEVEL                                                            | VCC X 0.9 V MIN                                                                                                                                     |
|                             | LOAD                                                                       | 15 pF                                                                                                                                               |
| ENABLE/DISABLE FUNCTION     | PIN 1: HIGH OR OPEN PIN 3: OSCILLATION<br>PIN 1: LOW PIN 3: HIGH IMPEDANCE |                                                                                                                                                     |
| ENABLE/DISABLE TIME         | 100 ns MAX                                                                 | 150 ns MAX                                                                                                                                          |
| STANDBY CURRENT             | 100 uA MAX<br>(CONTROL=L LEVEL VCC=5.0 V)                                  | 100 uA MAX<br>(CONTROL=L LEVEL VCC=3.3 V)                                                                                                           |

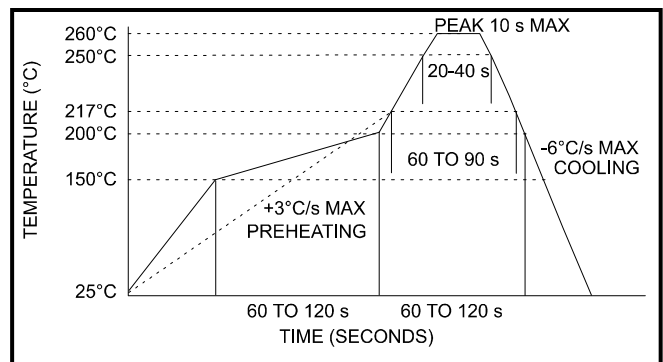


† INCLUSIVE OF 25°C TOLERANCE, OPERATING TEMPERATURE RANGE, VOLTAGE OR LOAD CHANGES, AGING, SHOCK AND VIBRATION

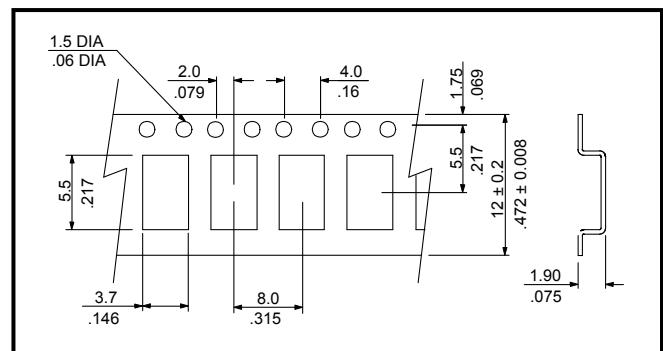
### OUTLINE DRAWING



### REFLOW SOLDERING PROFILE



### CARRIER TAPE DIMENSIONS



### PACKAGING

178 mm REEL DIAMETER, 12mm TAPE WIDTH, 8mm PITCH  
QUANTITY: 1000 PIECES PER REEL

### PART NUMBERING SYSTEM

| SERIES |   | FREQUENCY STABILITY |          | FREQUENCY |        | TAPE AND REEL |
|--------|---|---------------------|----------|-----------|--------|---------------|
| COM23  | - | 10                  | ±100 PPM | -         | IN MHz | -             |
| COM25  | - | 05                  | ±50 PPM  | -         |        | TR            |
|        | - | 03                  | ±30 PPM  | -         |        |               |

EXAMPLE: COM2503-32.000-TR