

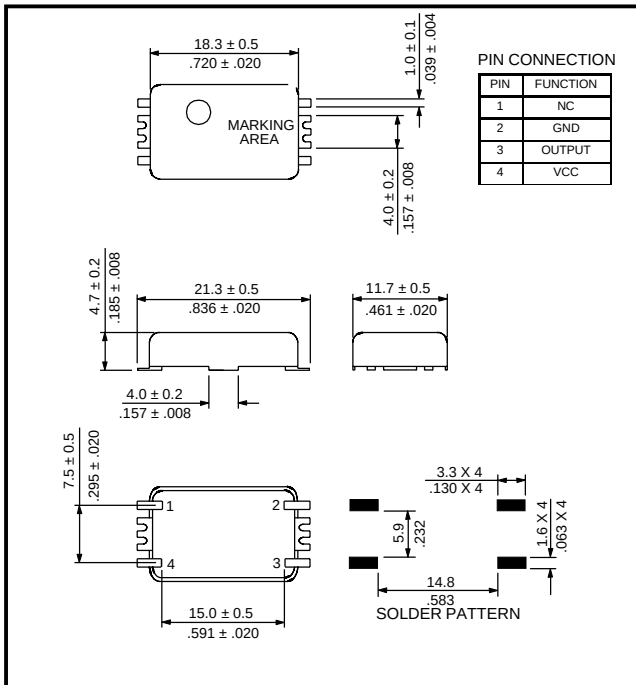
- FEATURES
- ULTRA MINIATURE PACKAGE
- EXCELLENT FREQUENCY STABILITY AND AGING
- 5.0 V OR 3.0 V SUPPLY VOLTAGE

#### ● SPECIFICATIONS

|                                             |           |                                    |
|---------------------------------------------|-----------|------------------------------------|
| SERIES                                      |           | RTX-230 AND RTV-230                |
| FREQUENCY RANGE                             |           | 9.60 MHz TO 45.00 MHz              |
| FREQUENCY STABILITY OVER TEMPERATURE RANGE† |           | ±2.5 PPM                           |
| OPERATING TEMPERATURE RANGE                 |           | -30°C TO 75°C                      |
| FREQUENCY STABILITY VS. SUPPLY VOLTAGE      |           | 0.3 PPM AT+5V ± 5%                 |
| INPUT                                       | VOLTAGE†  | +5V ± 5%                           |
|                                             | CURRENT   | 2.0 mA MAX                         |
| OUTPUT                                      | WAVEFORM† | CLIPPED SINEWAVE OR CMOS/TTL       |
|                                             | LOAD      | 10 K OHM / 10pF OR 2 TTL/15 pF     |
|                                             | VOLTAGE   | 1Vp-p MIN                          |
| AGING                                       |           | ±1 PPM PER YEAR MAX                |
| FREQUENCY ADJUSTMENT                        |           | ±3 PPM MIN                         |
| FREQUENCY DEVIATION                         |           | ±8 PPM TO ±15 PPM (+2.5 VDC ±2.0V) |
| OPERABLE TEMPERATURE RANGE                  |           | -40°C TO +85°C                     |

† OTHER STABILITIES OVER TEMPERATURE, +3.0 V SUPPLY, AND OUTPUT WAVEFORMS ARE AVAILABLE. CONSULT RALTRON FOR OTHER SPECIFICATIONS.

#### ● OUTLINE DRAWING



#### ● PACKAGING

ANTI-STATIC ELECTRIC TRAY  
QUANTITY: 70PIECES PER TRAY

#### ● PART NUMBERING SYSTEM

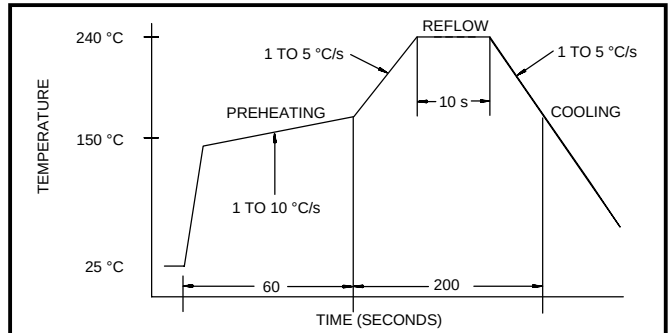
| TYPE       | REVISION | SERIES | FREQUENCY STABILITY | TEMPERATURE RANGE  | VOLTAGE          | FREQUENCY CONTROL (RTV ONLY)     | TRIMMER | WAVEFORM                       | FREQUENCY |
|------------|----------|--------|---------------------|--------------------|------------------|----------------------------------|---------|--------------------------------|-----------|
| RTX<br>RTV | TBD*     | 230    | E: ±2.5 PPM         | F1 : -30°C TO 75°C | 5: +5.0 VDC ± 5% | X: ±5 PPM TO ±15PPM (+2.5 V±2 V) | T       | S: CLIPPED SINE<br>C: CMOS/TTL | IN MHz    |

EXAMPLE: RTX\*-230-EF15-TS-15.360

\* REVISION IS ASSIGNED DURING MANUFACTURING



#### ● REFLOW SOLDERING PROFILE



#### ● CARRIER TRAY DIMENSIONS

