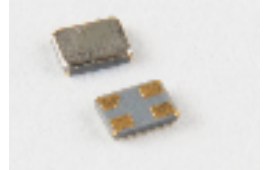


SERIES R1612



● **FEATURES**

- ULTRA SMALL ULTRA THIN
- AUTOMATIC MOUNTING POSSIBLE
- REFLOW POSSIBLE
- EXCELLENT FOR HIGH DENSITY APPLICATIONS



● **SPECIFICATIONS**

| PARAMETER | VALUE |
|--------------------------------------|--|
| FREQUENCY RANGE | 24.000 MHz to 60.000 MHz |
| MODE OF OSCILLATION | AT CUT, Fundamental |
| FREQUENCY TOLERANCE AT 25°C | ±50 ppm max ±10ppm, ±20ppm, ±30 ppm available |
| FREQUENCY STABILITY OVER TEMPERATURE | ±50 ppm max ±10ppm, ±20ppm, ±30 ppm available |
| OPERATING TEMPERATURE RANGE | -10°C to +60°C Standard -40°C to +85°C Extended |
| STORAGE TEMPERATURE RANGE | -40°C to +85°C |
| AGING | ±2 ppm per year |
| LOAD CAPACITANCE | 8 pF to 32 pF or Series Resonance |
| EQUIVALENT SERIES RESISTANCE | See Table 1 |
| SHUNT CAPACITANCE | 3.5 pF max |
| DRIVE LEVEL | 50 µW max |

| TABLE 1 | | |
|------------------|------|-----------------|
| FREQUENCY (MHz) | MODE | MAXIMUM ESR (Ω) |
| 24.000 to 40.999 | FUND | 150 |
| 41.000 to 60.000 | FUND | 100 |

■ **PART NUMBERING SYSTEM**

| TYPE | - | FREQUENCY | - | LOAD CAPACITANCE | - | MODE | TOLERANCE/STABILITY (PPM/PPM) |
|-------|---|-----------|---|---|---|--|--|
| R1612 | - | IN MHz | - | 8 to 32 pF for PARALLEL S for SERIES | - | Blank for < 24.576 MHz F for ≥ 24.576 MHz | Blank for MAXIMUM PPMPPM for OTHER Example: 1020, 2050 |

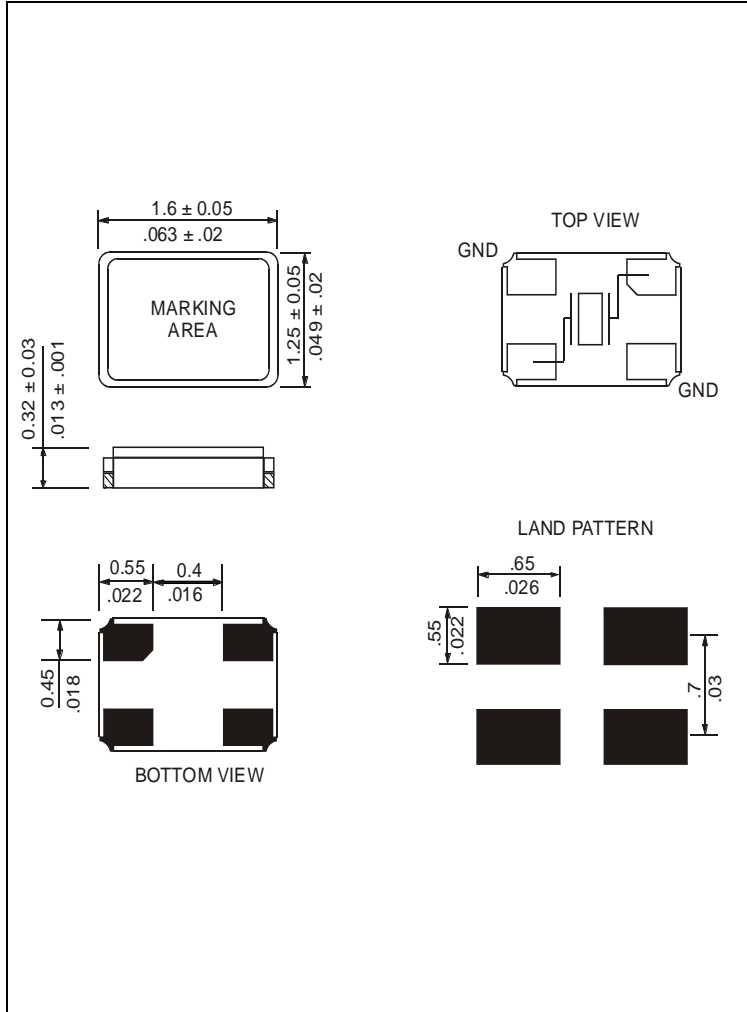
| - | TEMPERATURE RANGE | - | TAPE & REEL |
|---|--|---|-------------|
| - | Blank for STANDARD EXT for EXTENDED | - | TR |

EXAMPLE: R1612-26.000-8-F-1530-TR

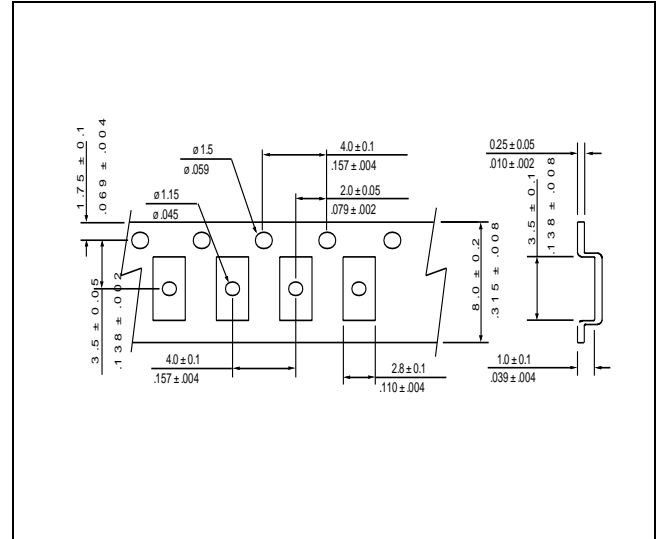
Surface Mount Crystal, 1.6 x 1.2 mm, 26.000 MHz, 8 pF Load, Fundamental Mode, ±15 ppm Tolerance, ±30 ppm Stability, from -10°C to +60°C, Tape and reel Packaging

SERIES R1612

MECHANICAL SPECIFICATION



CARRIER TAPE DIMENSIONS

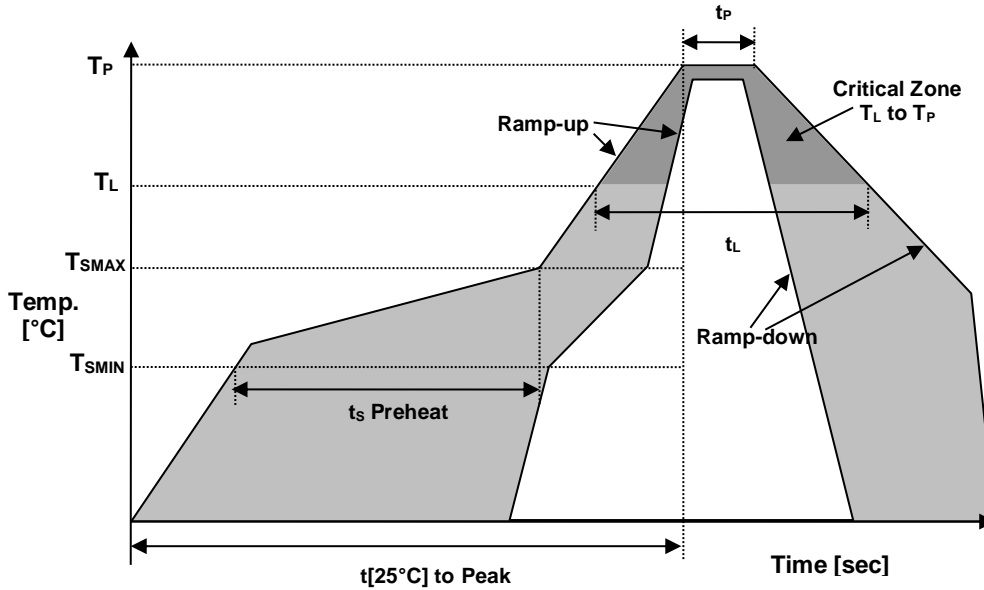


NOTE: REFER TO EIA-481 FOR NON-SPECIFIED DIMENSIONS

PACKAGING

180 mm REEL DIAMETER
8 mm TAPE WIDTH, 4 mm PITCH
QUANTITY: 3000 PIECES PER REEL

● REFLOW PROFILE



| Reflow profile | | |
|--|-------------------|--------------|
| Temperature Min Preheat | T _{SMIN} | 150°C |
| Temperature Max Preheat | T _{SMAX} | 200°C |
| Time (T _{SMIN} to T _{SMAX}) | t _s | 60-180 sec. |
| Temperature | T _L | 217°C |
| Peak Temperature | T _P | 260°C |
| Ramp-up rate | R _{UP} | 3°C/sec max. |
| Ramp-down rate | R _{DOWN} | 6°C/sec max. |
| Time within 5°C of Peak Temperature | t _p | 10 sec. |
| Time t[25°C] to Peak Temperature | t[25°C] to Peak | 480 sec. |
| Time | t _L | 60-150 sec. |

● ENVIRONMENTAL

| PARAMETER | VALUE |
|----------------------------|-----------|
| MOISTURE SENSITIVITY LEVEL | 1 |
| RoHS | COMPLIANT |
| REACH SVHC | COMPLIANT |
| HALOGEN-FREE | COMPLIANT |
| ESD CLASSIFICATION LEVEL | N/A |
| TERMINATION FINISH | Au |

