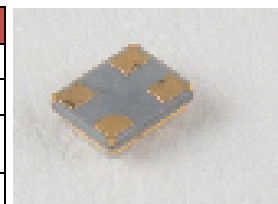


SERIES RR2016
◆ FEATURES

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


◆ SPECIFICATIONS

PARAMETER	VALUE
FREQUENCY RANGE	16.000 MHz to 72.000 MHz
MODE OF OSCILLATION	AT Cut, Fundamental
FREQUENCY TOLERANCE AT 25°C	±50 ppm max ±10 ppm, ±20 ppm, ±30 ppm available
FREQUENCY STABILITY OVER TEMPERATURE	±50 ppm max ±10 ppm, ±20 ppm, ±30 ppm available
OPERATING TEMPERATURE RANGE	-10°C to +60°C Standard -40°C to +85°C Extended
STORAGE TEMPERATURE RANGE	-40°C to +90°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	100 µW max


TABLE 1

FREQUENCY (MHz)	MODE	MAXIMUM ESR (Ω)
16.000 to 20.999	FUND	200
21.000 to 25.999	FUND	120
26.000 to 40.999	FUND	100
41.000 to 72.000	FUND	60

■ PART NUMBERING SYSTEM

TYPE	-	FREQUENCY	-	LOAD CAPACITANCE	-	MODE	TOLERANCE/STABILITY (PPM/PPM)
RR2016	-	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

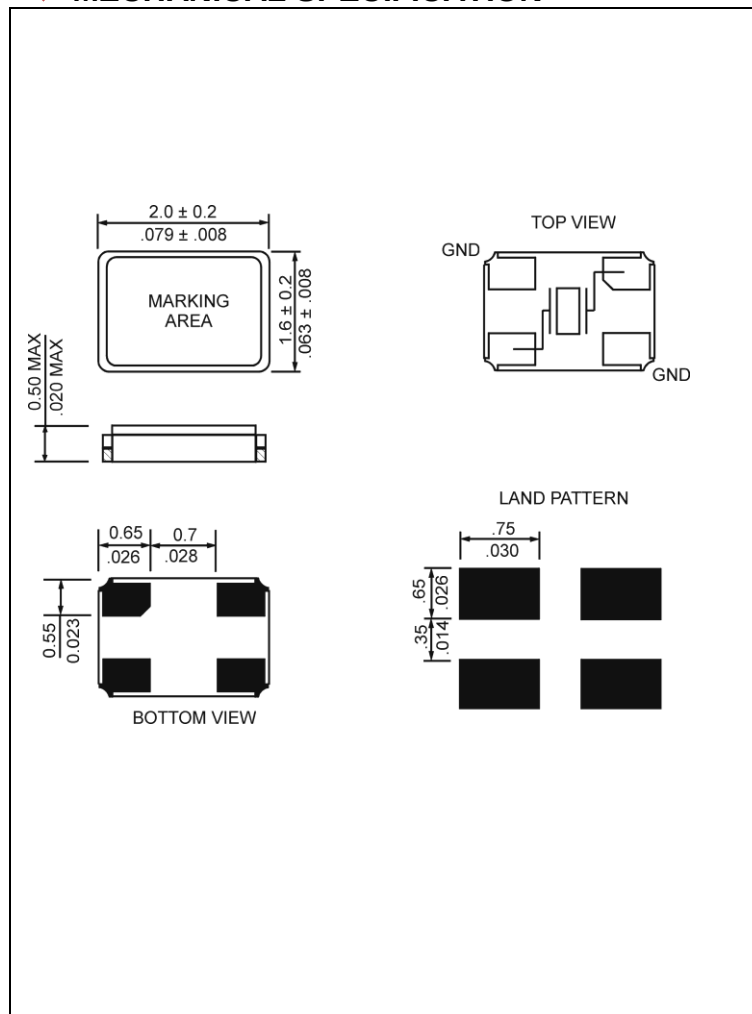
-	TEMPERATURE RANGE	-	TAPE & REEL
-	Blank for STANDARD EXT for EXTENDED	-	TR

EXAMPLE: RR2016-32.000-8-1030-EXT-TR

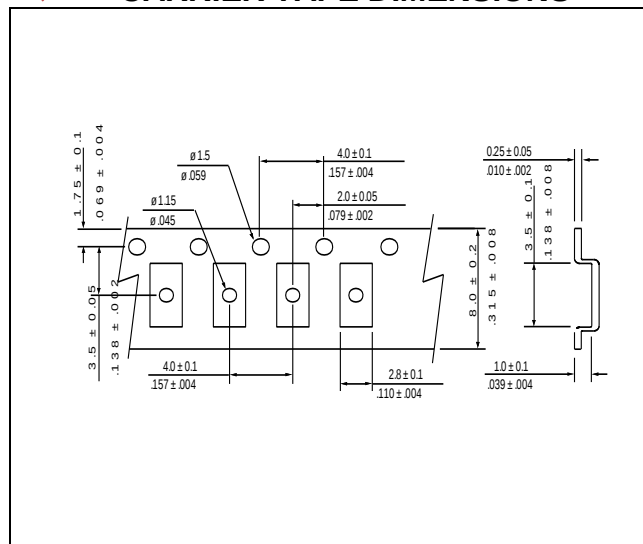
Surface Mount Crystal, 2.0 x 1.6 mm, 32.000 MHz, 8 pF Load, Fundamental Mode, ±10 ppm Tolerance, ±30 ppm Stability, from -40°C to +85°C, Tape and Reel Packaging

SERIES RR2016

MECHANICAL SPECIFICATION



CARRIER TAPE DIMENSIONS

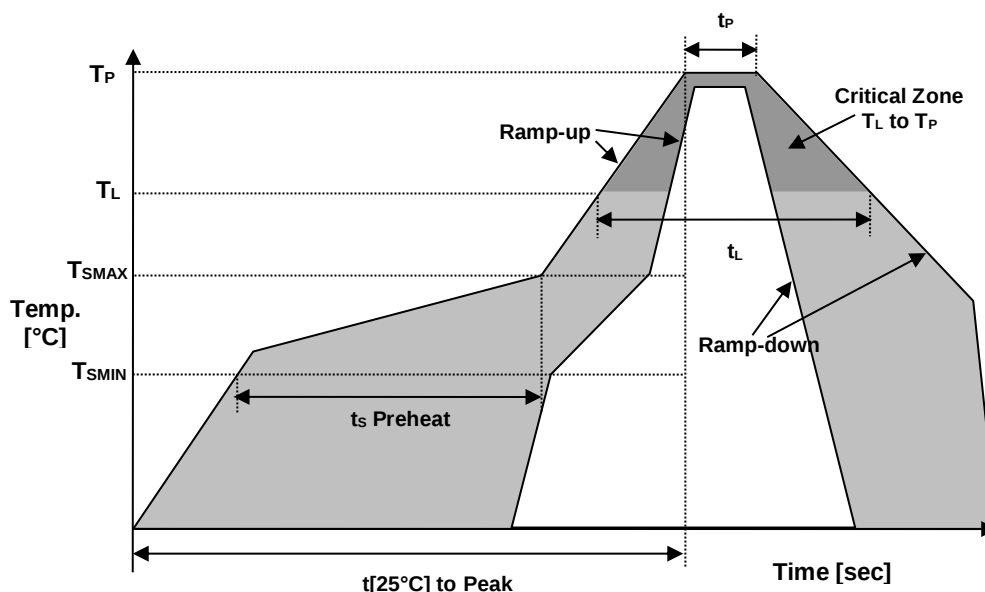


NOTE: REFER TO EIA-481 FOR NON-SPECIFIED DIMENSIONS

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})	ts	60-180 sec.
Temperature	TL	217°C
Peak Temperature	TP	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	tp	10 sec.
Time t[25°C] to Peak Temperature	t[25°C] to Peak	480 sec.
Time	tL	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

