

● FEATURES

- SUITABLE FOR TIME OF DAY CLOCKS
- IDEAL FOR HIGH DENSITY PACKAGING APPLICATION
- SMALL AND COMPACT PACKAGE



● SPECIFICATIONS

PARAMETER	VALUE
NOMINAL FREQUENCY	32.768 kHz
MODE OF OSCILLATION	FUNDAMENTAL
FREQUENCY TOLERANCE AT 25°C	±20 PPM STANDARD ±5, ±10 PPM AVAILABLE
FREQUENCY STABILITY OVER TEMPERATURE COEFFICIENT	-0.04 PPM / °C ²
OPERATING TEMPERATURE RANGE	-40°C TO +85°C
STORAGE TEMPERATURE RANGE	-55°C TO +125°C
AGING	±3 PPM PER YEAR MAX
LOAD CAPACITANCE	6pF, 7pF, 9pF, 12.5 pF*
EQUIVALENT SERIES RESISTANCE	70 kΩ MAX
SHUNT CAPACITANCE	1.1 pF TYP
DRIVE LEVEL	0.5 μW MAX
SHOCK RESISTANCE	±5 PPM MAX 75 cm DROP TEST ONTO A HARD WOOD SURFACE
REFLOW CONDITIONS	260°C FOR 10s MAX

*Note: Other values available

● PART NUMBERING SYSTEM

TYPE	-	FREQUENCY kHz	-	LOAD CAPACITANCE pF	-	TOLERANCE PPM*	-	TAPE & REEL
RT3215	-	32.768	-	6, 7, 9 or 12.5	-	5 or 10	-	TR

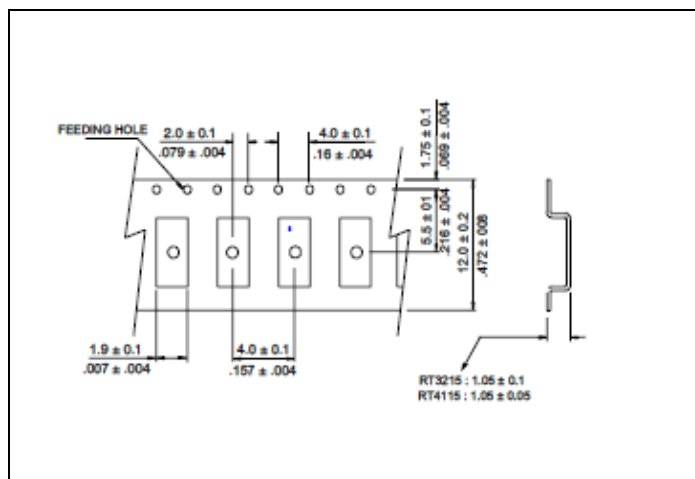
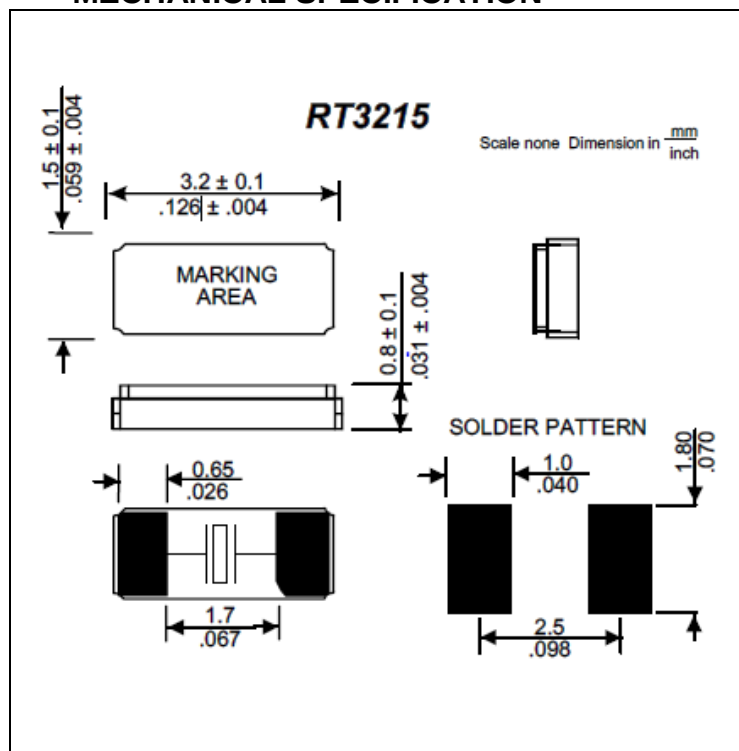
*Note: Not included in the PN if the Tolerance has the standard value 20ppm

EXAMPLE: RT3215-32.768-12.5-10-TR

Surface Mount Tuning Fork Crystal, 3.2 mm x 1.5 mm package, 32.768 kHz, 12.5 pF load, ±10 ppm Tolerance, Operating Temperature from -40°C to +85°C, Tape and Reel packaging

SERIES RT3215

- **MECHANICAL SPECIFICATION**



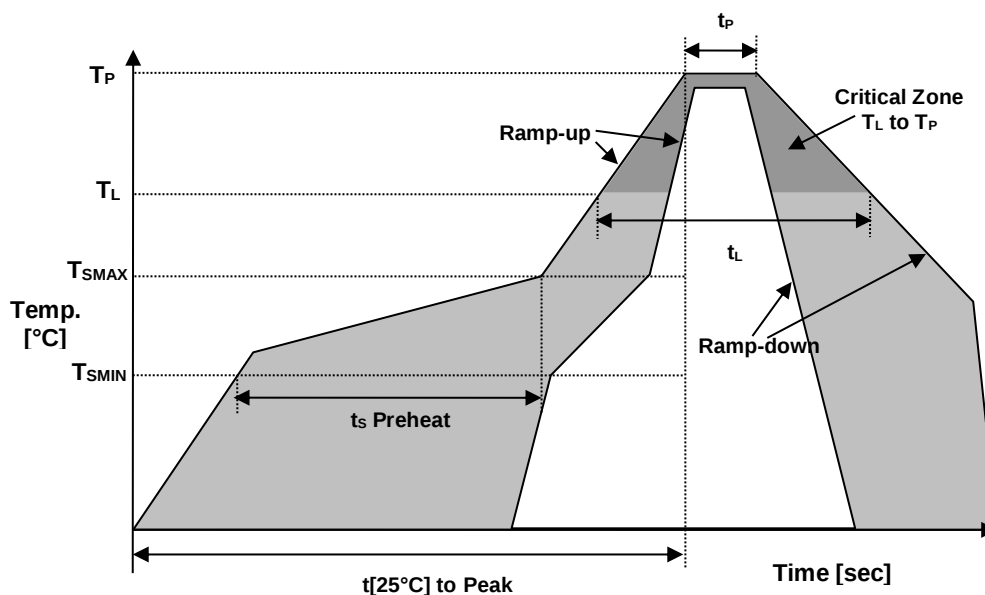
NOTE: REFER TO EIA-481 FOR DIMENSIONS

- **PACKAGING**

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

IN ACCORDANCE WITH EIA-481

REFLOW PROFILE



Reflow profile (Reference IPC/JEDEC J-STD-020)		
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



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