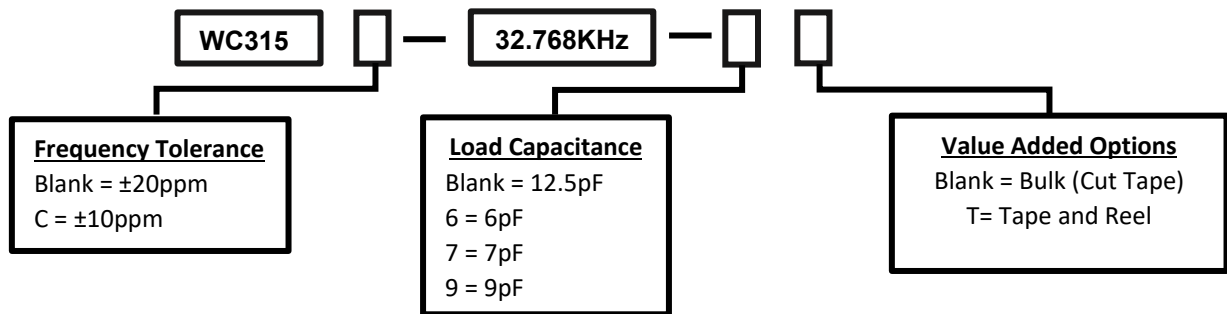


- **SMD Package**
- **Real Time Clock Source**
- **Low Profile**
- **Metering**
- **RoHS and REACH Compliant**
- **Time Reference**

Electrical Specifications

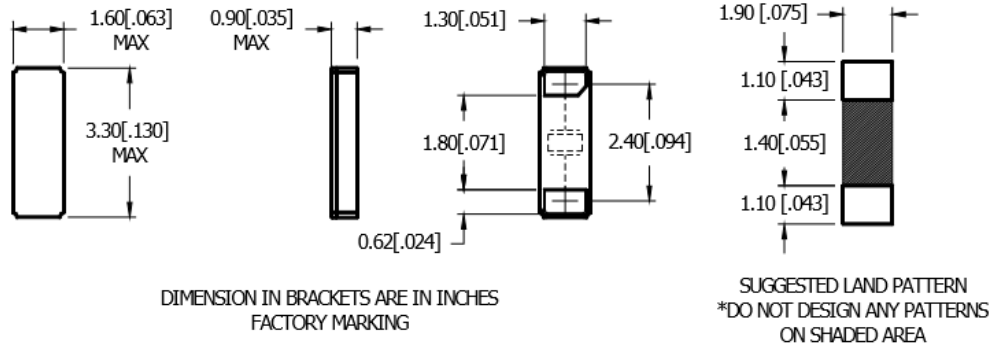
Frequency	32.768kHz
Frequency Tolerance (at 25°C)	±20ppm Max (Tested at 0.1 µW, See Options)
Load Capacitance	12.5pF (See Options)
Operating Temperature Range	-40°C to +85°C
Storage Temperature Range	-55°C to +125°C
Turnover Temperature	25°C ±5°C
Mode of Operation	Flexural Mode (Tuning Fork)
Frequency Stability (Over Temperature)	-0.040 ppm / (Change in °C) ² Max
Equivalent Series Resistance (ESR)	70k Ohms Max
Drive Level	0.1 µWatt Typical, 0.5 µWatt Max
Aging (@25°C± 3°C)	±2ppm/ First Year Max
Quality Factor	10000 Min
Shunt Capacitance (Co)	1.6pF Max
Insulation Resistance	500 Mohms Min (at 100Vdc ±15Vdc)

Part Number Guide



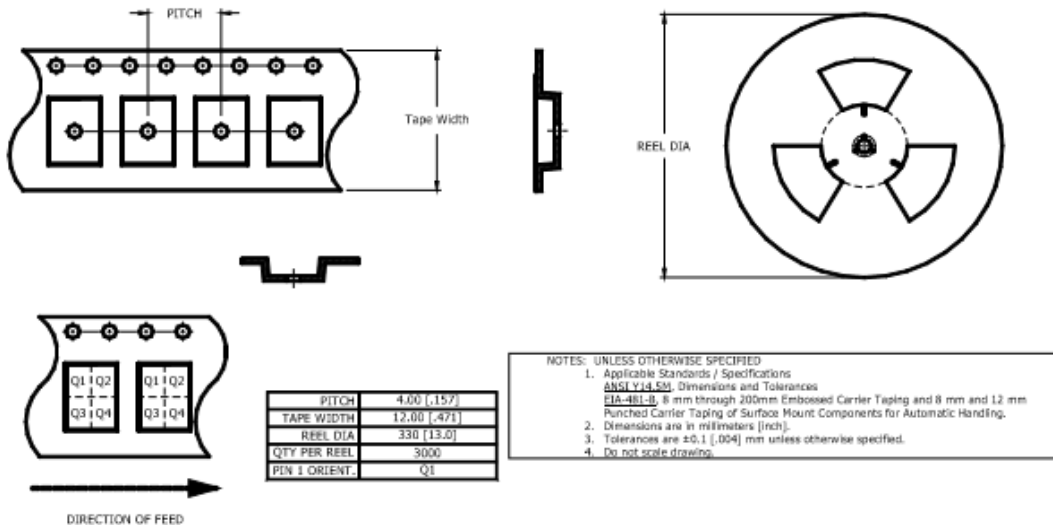
Please consult with MMD sales department for any other parameters or options.

Mechanical Details

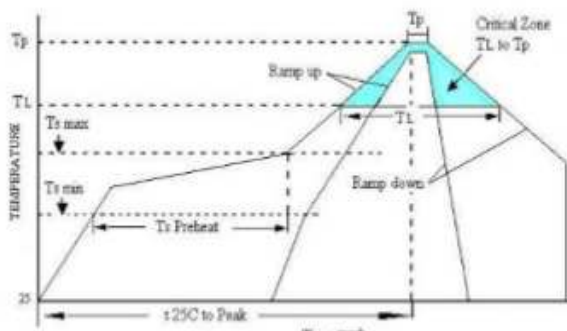


Note: Due to material availability, the outline and finish color of the component may vary. This variation in no way affects the electrical performance of the product.

Tape & Reel Dimensions



Pb Free Solder Reflow Profile



Units are backward compatible with +240°C reflow processes

Ts max to T ₁ (Ramp-up Rate)	3°C / second max
Preheat	
Temperature min (Ts min)	150°C
Temperature typ (Ts typ)	175°C
Temperature max (Ts max)	200°C
Time (Ts)	60 to 180 seconds
Ramp-up Rate (T ₁ to Tp)	3°C / second max
Time Maintained Above Temperature (T ₁)	217°C
Time (T ₁)	60 to 150 seconds
Peak Temperature (Tp)	260°C max for 10 seconds
Time within 5°C to Peak Temperature (Tp)	20 to 40 seconds
Ramp-down Rate	6°C / second max
Tune 25°C to Peak Temperature	8 minutes max