WC315 Series



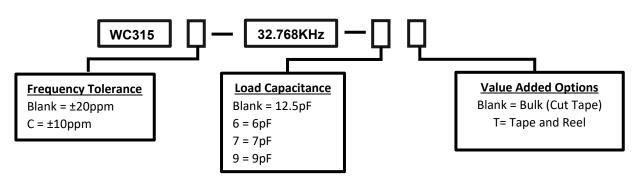
- O SMD Package
- O Low Profile
- O RoHS and REACH Compliant

- O Real Time Clock Source
- O Metering
- O 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)

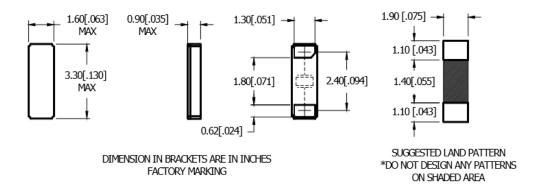
Part Number Guide



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

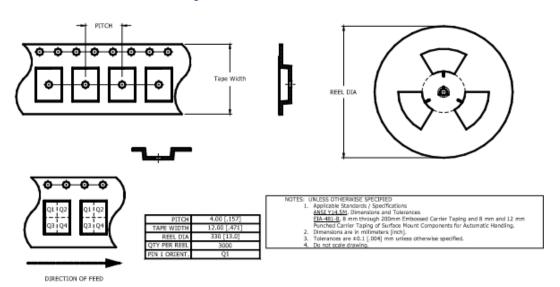


Mechanical Details

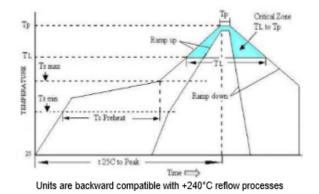


Note: Due to material availability, the outline and finish color of the component may vary. This variation in no way affects the electrical performance of the product.

Tape & Reel Dimensions



Pb Free Solder Reflow Profile



Ts max to T _L (Ramp-up Rate)	3°C / second max
Preheat	
Temperature min (Ts min)	150°C
Temperature typ (Ts typ)	175℃
Temperature max (Ts max)	200°C
Time (Ts)	60 to180 seconds
Ramp-up Tate (T _L to Tp	3°C / second max
Time Maintained Above	
Temperature (T⊥)	217°C
Time (T _{L)}	60 to 150 seconds
Peak Temperature (Tp)	260°C max for 10
	seconds
Time within 5°C to Peak	20 to 40 seconds
Temperature (Tp)	
Ramp-down Rate	6°C / second max
Tune 25°C to Peak Temperature	8 minutes max