The RM138 Series is designed to easily fit into 5.0 x 3.2 mm packages with excellent frequency tolerance control, and demonstrated performance for low spurs, frequency accuracies, and aging.* These devices are supplied as crystal blanks or with electrodes using proprietary processes to achieve consistent C1 and C0 values. Various versions to meet commercial, industrial, telecom, military temperature ranges.

**Features**

- 5.0 x 3.2 packaging or UM/HC45 style mounts
- Gold Electrodes in various sizes for specific frequency and C1/C0 ratios
- Stable oscillation/ lower spurs (applied plating) Tune Low and Tune High options
- High Q, chemically etched, free of etch channels or scratches in the Mesa area

**Applications**

- Small packaged crystals for precise frequency control applications
- Customer applications for SONET, 10G, 1G, Storage, network communications

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**Fund. Freq Range**  
50 to 350 MHz

**Frequency Third:**  
150 to 1.050 GHz

**Frequency Tol.**  
+/- 0.010 F^2

**Temp. Range**  
0 to 70, -20 to 85, -40 to 85, -55 to 125°C

**Tempco**  
100, 50, 35, 25, 10 ppm

**Electrode Size**  
0.25mm to 1.25 mm

**Electrode Style**  
Contacts at same end *

**Material and Q**  
Low Etch Channel Pure Z Quartz with a Q minimum of 1.8 Million

**Surface Finish**  
Polished

**Angle**  
Standard AT cuts

**Angle Tolerance**  
+/- 2' or +/- 1'

**Specification Note**  
Also as customer specified

**Dimensions (mm)**  
3.50 x 1.82 x 0.080

**Dimensions (inches)**  
0.138 x 0.071 x 0.00315

**Ship Pack Method**  
Waffle Pack

* We can supply with various electrode designs, including opposite end contacts for package assembly

Dimensional tolerance is +/- 0.001" (1 mil) or +/- 0.0025mm

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**Device Dimensions**

![Device Dimensions Diagram]