



## Inverted Mesa Crystals for higher frequency 5.0 x 7.0 mm or 5.0 x 7.5 mm packaging

The RS196 Series is designed to easily fit into 5.0 x 7.0 mm or 5.0 x 7.5 mm packages with excellent frequency tolerance control, and demonstrated performance for low spurs, frequency accuracies, and aging.\*. This smaller mesa design is recommended for frequencies above 120 MHz; being more rugged than RX196 series, achieving higher mechanical production yields. These devices can be supplied with electrodes using proprietary process to achieve consistent C1 and C0 values. Various versions to meet commercial, industrial, telecom, military temperature ranges.

### Features

- For 5.0 x 7.0 or 5.0 x 7.5 mm packaging
- Mesa oriented across X-Axis
- Stable oscillation with low spurs
- Gold Electrodes in various sizes for specific frequency and C1/C0 ratios
- Tune Low and Tune High options
- High Q, chemically etched, free of etch channels

<b>Fund. Freq Range</b>	50 to 350 MHz
<b>Frequency Third:</b>	150 to 1.050 GHz
<b>Frequency Tol.</b>	+/- 0.010 F <sup>2</sup>
<b>Temp. Range</b>	0 to 70, -20 to 85, -55 to 125C
<b>Tempco</b>	100, 50, 35, 25, 10 ppm
<b>Electrode Size</b>	Various
<b>Electrode Style</b>	Contacts at same end
<b>Material and Q</b>	Low Etch Channel Pure Z Quartz with a Q minimum of 1.8 Million
<b>Surface Finish</b>	Polished
<b>Angle</b>	Standard AT cuts
<b>Angle Tolerance</b>	+/- 2' or +/- 1'
<b>Specification Note</b>	Also as customer specified
<b>Dimensions (mm)</b>	4.98 x 2.39 x 0.080 mm
<b>Dimensions (inches)</b>	0.196 x 0.094 x 0.00315"
<b>Ship Pack Method</b>	Waffle Pack

Dimensional tolerance is +/- 0.001" (1 mil) or +/- 0.0025mm  
Frequency tolerance is calculated and measured on the fundamental

### Applications

Crystals for precise frequency control applications in high volume packaging. Customer applications for SONET, 10G, 1G, Storage, network communications

### Device Dimensions

