



# Fundamental Inverted Mesa Crystals for standard 0.220 round clip mount designs

The SM156 series of electrode plated Square inverted Mesa blanks or plated Crystals are designed to mount in standard 0.220" mounts. This robust crystal is a proven replacement for round crystal and fit in same holders! The proprietary process yields consistent C1 and C0 values, making these devices excellent for VCXO applications requiring consistent pullability. Low Spurs and excellent frequency tolerance enable high yielding production and high performance crystal oscillators and filters.

### Features

- Sized for standard 0.220" / 5.59mm mounts
- Rugged, high performance crystal
- Electrodes plated to opposite corners
- Gold electrodes in various sizes targeted for frequencies and C1/C0 ratios
- Tune Low and Tune High options
- High Q, chemically etched, free of etch channels

### Applications

- Standard 0.220 round mount applications
- High performance VCXO, XO, OCXO and specials requiring hybrid design
- Telecom, communications, networking, military

<b>Fund. Freq Range</b>	30 to 350 MHz
<b>Frequency Third:</b>	90 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>	Plated to opposite corners and
<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>	3.962 x 3.962 x 0.080
<b>Dimensions (inches)</b>	0.156 x 0.156 ( 0.220 across di
<b>Ship Pack Method</b>	Waffle Pack

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

### Device Dimensions

