

Fundamental Inverted Mesa Crystals for standard 0.200 round clip mount designs

The SM141 series of electrode plated Square inverted Mesa blanks are designed to mount in standard 0.200" 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 pullablity. Low Spurs and excellent frequency tolerance enable high yielding production and high performance crystal oscillators and filters.

Features

Sized for standard 0.200" / 5.08mm 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

Fund. Freq Range 30 to 350 MHz

Frequency Third: 90 to 1.050 GHz

Frequency Tol. +/- 0.010 F^2

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

Tempco 100, 50, 35, 25, 10 ppm

Electrode Size Various

Electrode Style Plated to opposite corners and 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)** 3.581 x 3.581 x 0.080 mm **Dimensions (inches)** 0.141 x 0.141 (0.200 across di

Ship Pack Method Waffle Pack

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

Applications

Standard 0.200 round mount applications High performance VCXO, XO, OCXO and specials requiring hybrid design Telecom, communications, networking, military

Device Dimensions



