

Inverted Mesa Crystals Blanks 30 - 360MHz 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, at much lower cost than CM200 round crystals, and offer excellent performance for both filter and oscillator applications.

XECO's proprietary process yields a mesa which is clean and free of defects, enabling high performance operation for oscillators and filters.

XECO plated versions provide cost effective high performance alternatives to in-house plating operations. XECO offers three plating options and a range of electrodes to match performance needs.

Special or custom designs are supported, including multiple-pole filter designs.

Features

XECO high quality low spurs crystals
Electrodes plated to opposite corners
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

Benefits:

Lower cost implementation than with round blanks
Low spurs for filter (with small electrodes and Aluminum plating)
Fit wide range of mounts
High yield potential

Applications

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



Operation Mode	Fundamental or Overtone
Frequency Range	30 to 360 MHz
Frequency Range 3Rd:	90 to 1.08 GHz
Frequency Tolerance	+/- 0.010 F ² (489KHz at 156.25)
Material and Q	Low Etch Channel Pure Z Quartz with a Q minimum of 1.8 Million
Surface Finish	Polished
Angle	Std AT cut 35D8' to 35D29' [EFG 3D6' t
Angle Tolerance	+/- 2', +/-1', +/-0.5'
Dimensions (mm)	3.581 x 3.581 x 0.080 mm
Dimensions (inches)	0.141 x 0.141" (0.200 across diagonal) x
Electrode Size	0.125mm to 1.27 mm, 5 mils to 50 mils
Electrode Style	Plated to opposite corners and opposing sides
Electrode Material	Chrome Gold or Aluminum
Electrode Freq. Tol.:	+/- 0.015 F ² (
Contact Material:	Same as Electrode or Chrome-Gold with Aluminum
Ship Pack Method	Vacuum sealed wafflepack
Specification Note	Custom or special requirements are available

For more information, sales and technical support:



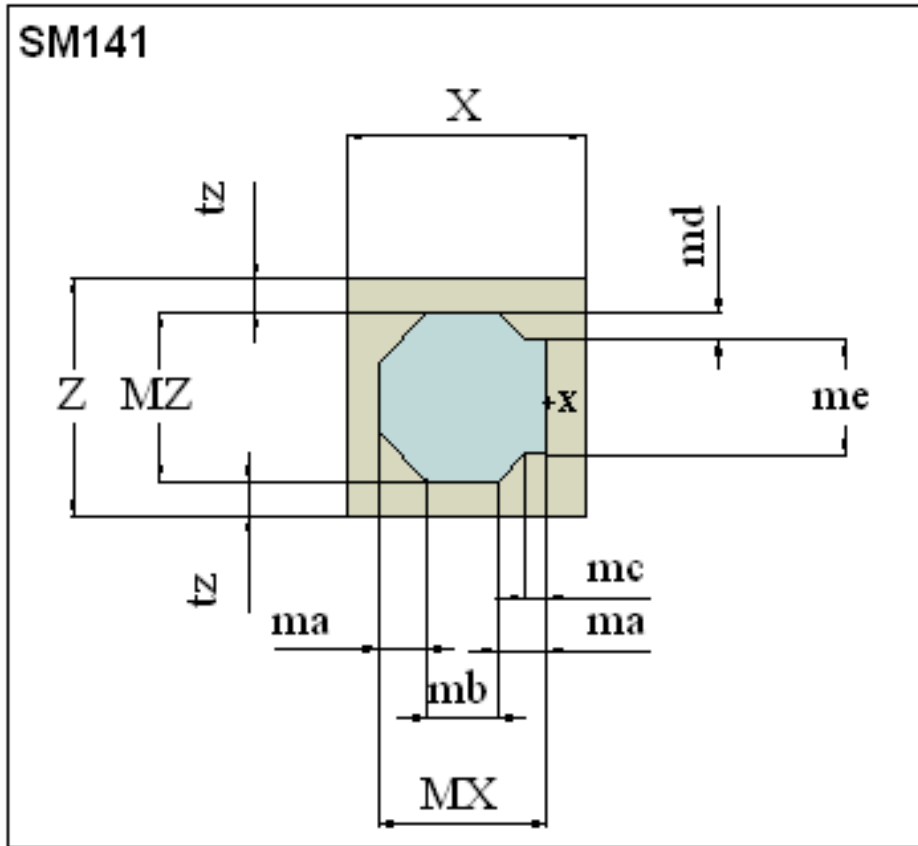
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Device Dimensions

mm		
	mm	Tolerances
X	3.581	+0.000 -0.025
Z	3.581	+0.000 -0.025
MX	2.540	+0.025 -0.025
MZ	2.540	+0.025 -0.025
ma	0.744	+0.001 -0.001
mb	1.052	+0.003 -0.003
mc	0.372	+0.001 -0.001
md	0.372	+0.001 -0.001
m:	1.780	+0.002 -0.002
tx	0.521	+0.013 -0.013
t:	0.521	+0.013 -0.013
m:	NA	NA
arcS	NA	NA

Inches		
	mils (0.001")	Tolerances
X	141.00	+0.00 -1.00
Z	141.00	+0.00 -1.00
MX	100.00	+1.00 -1.00
MZ	100.00	+1.00 -1.00
ma	29.29	+0.05 -0.05
mb	41.42	+0.10 -0.10
mc	14.65	+0.05 -0.05
md	14.65	+0.05 -0.05
m:	70.07	+0.08 -0.08
tx	20.50	+0.5 -0.5
t:	20.50	+0.5 -0.5
m:	NA	NA
arcS	NA	NA