XECO INC
1651 Bulldog, Cedar City, UT. 84720

SM156

Inverted Mesa Crystals Blanks
30 - 250MHz 0.220 round clip mount designs

The SM156 series of electrode plated Square inverted Mesa blanks are designed to mount in standard 0.220" mounts (two or four point mounts).

This series offers an much lower pricing than CM220 series.

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

Features

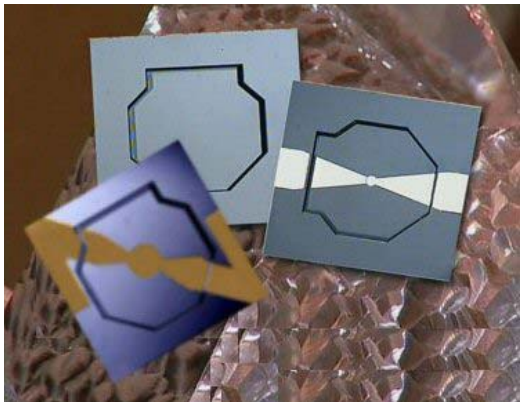
XECO high quality low spurs crystals
Electrodes plated to opposite corners
Electrodes in various sizes possible for frequencies and C1/C0 ratios
Tune Low and Tune High options
High Q, chemically etched, free of etch channels

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 0.220 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 250 MHz
Frequency Range 3Rd:	90 to 750 MHz
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' or +/- 1'
Dimensions (mm)	3.962 x 3.962 x 0.080 mm
Dimensions (inches)	0.156 x 0.156" (0.220 across diagonal) x
Electrode Size	Contact Sales
Electrode Style	Plated to opposite corners and opposing sides
Electrode Material	Chrome Gold or Aluminum
Electrode Freq. Tol.:	
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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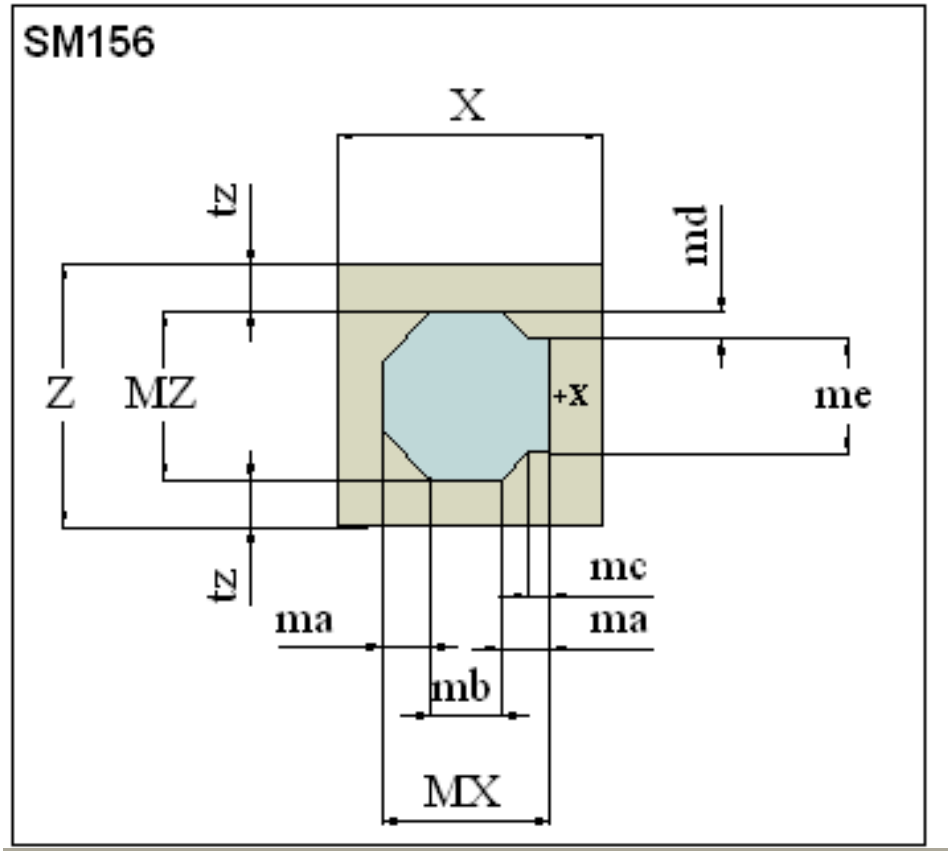
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Device Dimensions

mm		
	mm	Tolerances
X	3.962	+0.000 -0.025
Z	3.962	+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	0.711	+0.013 -0.013
t:	0.711	+0.013 -0.013
m:	NA	NA
arcS	NA	NA

Inches		
mils (0.001")		Tolerances
X	156.00	+0.00 -1.00
Z	156.00	+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	28.00	+0.5 -0.5
t:	28.00	+0.5 -0.5
m:	NA	NA
arcS	NA	NA

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