



RX196

Inverted Mesa Crystals Blanks

30 - 180 MHz 5.0 x 7.0 mm SMD packages

The RX196 Series is designed to easily fit into 5.0 x 7.0 mm packages with excellent oscillation performance. These devices are supplied as blanks or with electrodes using XECO's proprietary process to achieve consistent C1 and C0 values. Available in with a range of electrode sizes.

This popular crystal is now upgraded to the RM196, which offer increased ruggedness for automatic and manual assembly.

XECO supports existing production where requalification is not easily accomplished, however we recommend the RM196 for all new and existing designs simply to achieve the highest total yield possible.

Features

Stable oscillation with proven capability for oscillator and filter applications
4.98 mm x 2.39 mm size for 5.0 x 7.0 (7.5) mm
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
Mesa oriented across X-Axis

Benefits:

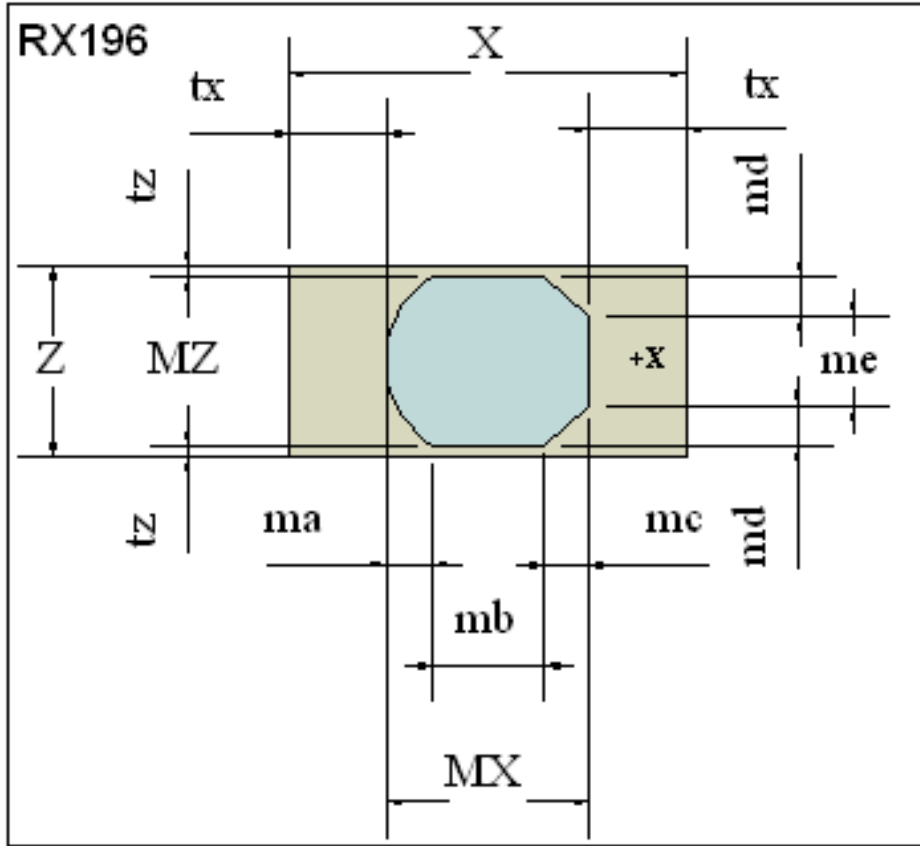
Applications

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

Operation Mode	Fundamental or Overtone
Frequency Range	30 to 180 MHz
Frequency Range 3Rd:	90 to 540 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)	4.98 x 2.39 x 0.080 mm
Dimensions (inches)	0.196 x 0.094 x 0.00315"
Electrode Size	0.125mm to 1.27 mm, 5 mils to 50 mils
Electrode Style	Contacts at same end
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

* RM196 series recommended for new design

Device Dimensions



mm		
	mm	Tolerances
X	4.978	+0.000 -0.025
Z	2.388	+0.000 -0.025
MX	2.540	+0.025 -0.025
MZ	2.134	+0.025 -0.025
ma	0.581	+0.001 -0.001
mb	1.367	+0.003 -0.003
mc	0.559	+0.001 -0.001
md	0.508	+0.001 -0.001
m:	1.118	+0.002 -0.002
tx	1.219	+0.013 -0.013
t:	0.127	+0.013 -0.013
m:		NA
arcS		NA

Inches		
	mils (0.001")	Tolerances
X	196.00	+0.00 -1.00
Z	94.00	+0.00 -1.00
MX	100.00	+1.00 -1.00
MZ	84.00	+1.00 -1.00
ma	22.88	+0.05 -0.05
mb	53.81	+0.10 -0.10
mc	22.00	+0.05 -0.05
md	20.00	+0.05 -0.05
m:	44.00	+0.08 -0.08
tx	48.00	+0.5 -0.5
t:	5.00	+0.5 -0.5
m:		NA
arcS		NA

