



RM126

Low Cost Inverted Mesa Crystals Blanks 50 - 700 MHz for 5 x7 mm SMD & UM-1/HC45

XECO's RM126 series offers 50 to 700 MHz operation (measured in fundamental mode) and is designed to fit in 5x7mm packages and provide a cost effective solution to high volume high frequency production. The RM126 will fit into modified clip UM-1 and HC45 style packages. XECO proprietary processes yield a clean mesa and transition area to achieve high performance, and XECO plating assures accurate electrode placement for maximizing performance at high frequencies.

This series offers standard round electrodes from 5 to 45 mils and special shapes are possible using XECO proprietary plating process which provides excellent alignment accuracy. Standard plating processes for oscillator are chrome-gold, or Aluminum with gold contacts to assure good bond with mounting adhesives, or 100% Aluminum.

These crystals blanks are also supplied with Gold, Aluminum, or Aluminum electrodes with gold flags/contacts. Special or custom designs are supported.

Features

Stable oscillation
3.20 mm x 1.83 mm size for mounting across typical 5 x 7mm package crystal mounts
Various Electrodes sizes for frequency and C1/C0 ratios
Tune Low and Tune High options
High Q, chemically etched, free of etch channels or scratches in the Mesa area
Accurate placement of electrodes

Benefits:

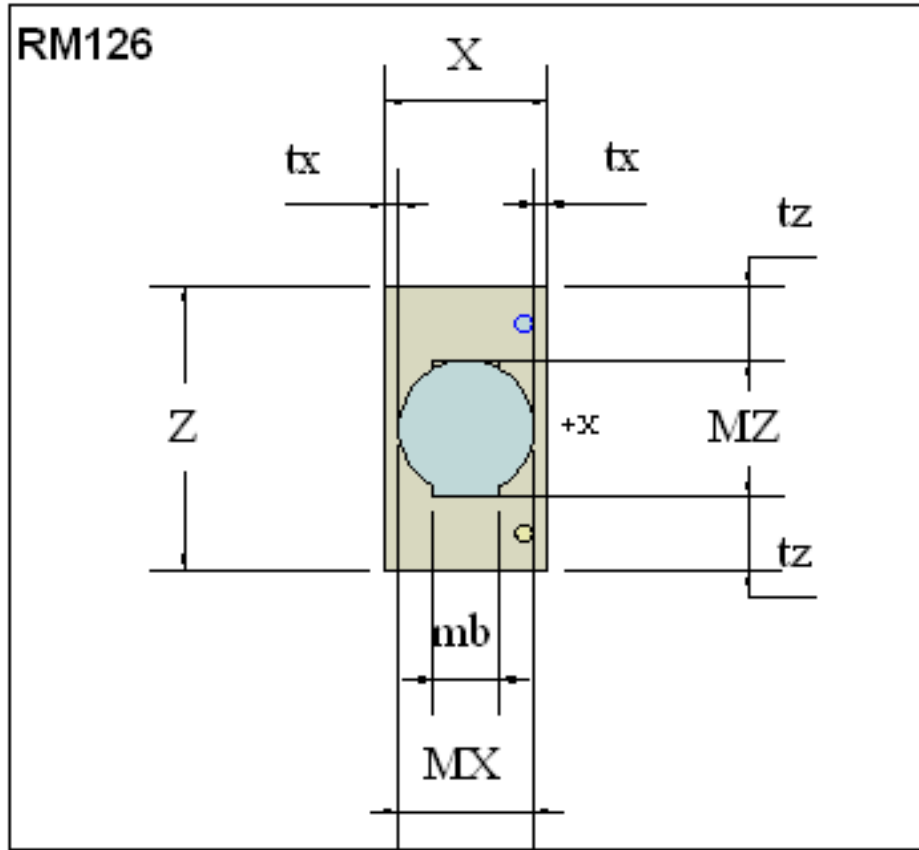
Excellent oscillator performance
Easy conversion to 5x7mm package
High Frequency Operation is available
Lower cost

Applications

Small packaged crystals for precise frequency control applications
Customer applications for SONET, 10G, 1G, Storage, network communications

Operation Mode	Fundamental or Overtone
Frequency Range	50 to 700 MHz
Frequency Range 3Rd:	150 to 2.10 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)	3.20 x 1.83 x 0.109 mm
Dimensions (inches)	0.126 x 0.071 x 0.00429"
Electrode Size	0.125mm to 1.15 mm, 5 mils to 45 mils
Electrode Style	Contacts at opposite ends or same end
Electrode Material	Chrome Gold or Aluminum
Electrode Freq. Tol.:	+/- 0.015 F ² (
Contact Material:	Same as Electrode material or Chrome-Gold with Aluminum
Ship Pack Method	Vacuum sealed wafflepack
Specification Note	Custom or special requirements available

*Xeco standard plateback or per customer requirements



Device Dimensions

mm		
	mm	Tolerances
X	1.829	+0.000 -0.025
Z	3.200	+0.000 -0.025
MX	1.524	+0.025 -0.025
MZ	1.524	+0.025 -0.025
ma	0.533	+0.001 -0.001
mb	0.762	+0.003 -0.003
mc		+0.001 -0.001
md		+0.001 -0.001
m:		+0.002 -0.002
tx	0.152	+0.013 -0.013
t:	0.838	+0.013 -0.013
m:	NA	NA
arcS	NA	NA

Inches		
	mils (0.001")	Tolerances
X	72.00	+0.00 -1.00
Z	126.00	+0.00 -1.00
MX	60.00	+1.00 -1.00
MZ	60.00	+1.00 -1.00
ma	21.00	+0.05 -0.05
mb	30.00	+0.10 -0.10
mc		+0.05 -0.05
md		+0.05 -0.05
m:		+0.08 -0.08
tx	6.00	+0.5 -0.5
t:	33.00	+0.5 -0.5
m:	NA	NA
arcS	NA	NA

