

# EA3250JA12-8.000M

[Click part number to visit Part Number Details page](#)

## REGULATORY COMPLIANCE (Data Sheet downloaded on Jun 5, 2017)



## ITEM DESCRIPTION

Quartz Crystal Resonator 3.2mm x 5.0mm x 1.0mm 4 Pad Ceramic Surface Mount (SMD) 8.000MHz  $\pm 15$ ppm at 25°C,  $\pm 30$ ppm over -40°C to +85°C 12pF Parallel Resonant

## ELECTRICAL SPECIFICATIONS

Nominal Frequency	8.000MHz
Frequency Tolerance/Stability	$\pm 15$ ppm at 25°C, $\pm 30$ ppm over -40°C to +85°C
Aging at 25°C	$\pm 3$ ppm/Year Maximum
Load Capacitance	12pF Parallel Resonant
Shunt Capacitance	5pF Maximum
Equivalent Series Resistance	120 Ohms Maximum
Mode of Operation	AT-Cut Fundamental
Drive Level	100 $\mu$ Watts Maximum
Spurious Response	-3dB Minimum (Measured from Fo to Fo+5000ppm)
Storage Temperature Range	-40°C to +125°C
Insulation Resistance	500 Megaohms Minimum (Measured at 100Vdc)

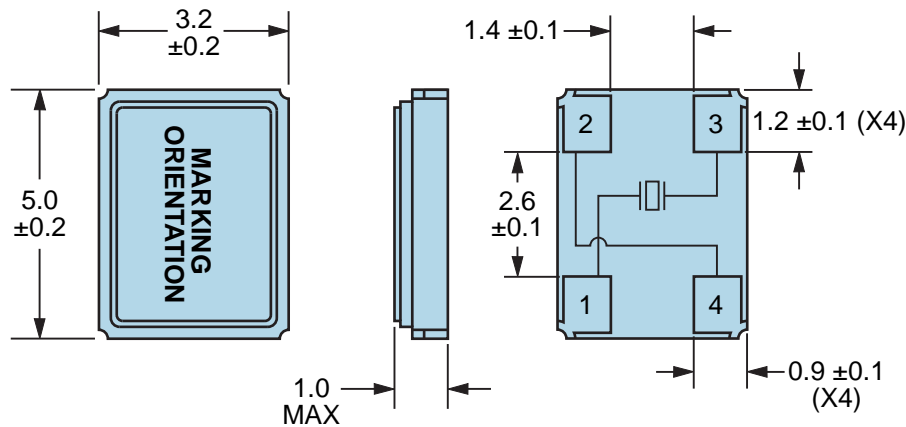
## ENVIRONMENTAL & MECHANICAL SPECIFICATIONS

ESD Susceptibility	MIL-STD-883, Method 3015, Class 1, HBM: 1500V
Fine Leak Test	MIL-STD-883, Method 1014, Condition A
Flammability	UL94-V0
Gross Leak Test	MIL-STD-883, Method 1014, Condition C
Mechanical Shock	MIL-STD-883, Method 2002, Condition B
Moisture Resistance	MIL-STD-883, Method 1004
Moisture Sensitivity	J-STD-020, MSL 1
Resistance to Soldering Heat	MIL-STD-202, Method 210, Condition K
Resistance to Solvents	MIL-STD-202, Method 215
Solderability	MIL-STD-883, Method 2003
Temperature Cycling	MIL-STD-883, Method 1010, Condition B
Vibration	MIL-STD-883, Method 2007, Condition A

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MECHANICAL DIMENSIONS (all dimensions in millimeters)

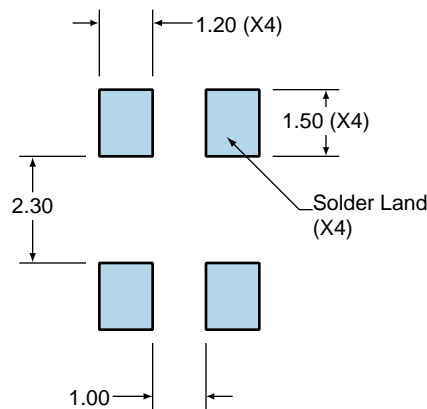


Note: Chamfer not shown.

Seam Sealed  
Terminal Plating Thickness: Gold (0.3 to 1.0µm) over Nickel (1.27 to 8.89µm)

Suggested Solder Pad Layout

All Dimensions in Millimeters



All Tolerances are ±0.1

PIN	CONNECTION
1	Crystal
2	Cover/Ground
3	Crystal
4	Cover/Ground

LINE	MARKING
1	<b>E8.000</b> <i>E=Ecliptek Designator</i>
2	<b>XXXXXX</b> <i>XXXXXX=Ecliptek Manufacturing Identifier</i>