

E8WSDC12-32.768K

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

REGULATORY COMPLIANCE (Data Sheet downloaded on Sep 14, 2016)



◀ Click badges to download compliance docs

Regulatory Compliance standards are subject to updates by governing bodies. Click the badges to download the latest compliance docs for this part number directly from Ecliptek.



ITEM DESCRIPTION

Watch Crystal Resonator 1.5mm x 3.2mm x 0.9mm 2 Pad Ceramic Surface Mount (SMD) 32.768KHz ± 20 ppm at 25°C -40°C to +85°C 12.5pF Parallel Resonant

ELECTRICAL SPECIFICATIONS

Nominal Frequency	32.768KHz
Frequency Tolerance	± 20 ppm at 25°C
Frequency Stability Temperature Coefficient	-0.04ppm/(Change in °C) ² Maximum
Turn over Temperature	25°C ± 5 °C
Aging at 25°C	± 3 ppm/year Maximum
Operating Temperature Range	-40°C to +85°C
Load Capacitance	12.5pF Parallel Resonant
Shunt Capacitance	1.0pF Typical, 1.5pF Maximum
Motional Capacitance	4.0fF Typical
Equivalent Series Resistance	70,000 Ohms Maximum
Mode of Operation	Fundamental
Drive Level	0.5 μ Watt Maximum
Crystal Cut	Tuning Fork
Storage Temperature Range	-40°C to +85°C
Insulation Resistance	500 Megaohms Minimum (Measured at 100Vdc)

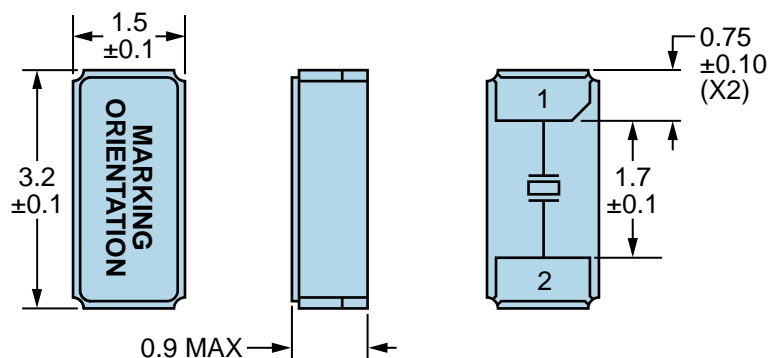
ENVIRONMENTAL & MECHANICAL SPECIFICATIONS

Fine Leak Test	MIL-STD-883, Method 1014, Condition A
Gross Leak Test	MIL-STD-883, Method 1014, Condition C
Mechanical Shock	MIL-STD-202, Method 213, Condition C
Resistance to Soldering Heat	MIL-STD-202, Method 210, Condition K
Solderability	MIL-STD-883, Method 2003
Vibration	MIL-STD-883, Method 2007, Condition A

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MECHANICAL DIMENSIONS (all dimensions in millimeters)



PIN	CONNECTION
1	Crystal
2	Crystal

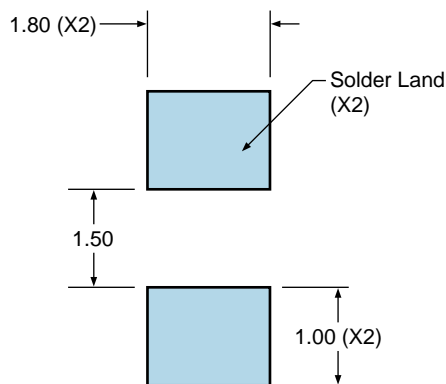
LINE	MARKING
1	XXXXXXXXXX XXXXXXXXXX=Ecliptek Manufacturing Identifier

Seam Sealed

Terminal Plating Thickness: Gold (0.3 to 1.0 μ m) over Nickel (3.0 to 4.0 μ m).

Suggested Solder Pad Layout

All Dimensions in Millimeters



All Tolerances are ± 0.1