Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!

Contact us

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Address: A1208, Overseas Decoration Building, #122 Zhenhua RD., Futian, Shenzhen, China

XM-1
5x7.5mm
Crystal Resonator

CONNOR WINFIELD

2111 Comprehensive Drive
Aurora, Illinois 60505
Phone: 630-851-4722
Fax: 630-851-5040
www.conwin.com
US Headquarters:
630-851-4722
European Headquarters:
+353-61-472221

Description:

Connor-Winfield's model XM-1 is a Crystal Resonator in a 5mm x 7.5mm surface mount package. Designed for applications requiring a small packaged tight tolerance crystal resonator. The surface mount package is designed for high density mounting and is optimum for mass production.

Features:

Model: XM-1

Frequency Calibration @ 25°C: +/-50 ppm
Frequency Stability: +/-50 ppm
Temperature Range: -10 to 60°C
Tape and Reel Packaging
RoHS Compliant / Lead Free

Electrical Specifications

Parameter	Minimum	Nominal	Maximum	Units	Notes
Output Frequency	8	-	100	MHz	
Operation Mode	Fundamental, 3rd Overtone or 5th Overtone				
Cut	AT Cut				
Frequency Calibration (@25 °C)	-50	-	50	ppm	
Frequency Stability vs. Temp	-50	-	50	ppm	
Operating Temperature Range:	-10	-	60	°C	
Shunt Capacitance (C0)	-	-	7	pF	
Load Capacitance (CL)	See table below				
Equivalent Series Resistance:(ESR)	See table below				
Drive Level	-	-	100	uW	
Insulation Resistance	500M	-	-	ohm	@ 100 Vdc
Aging: (1st Year)	-	-	±5.0	ppm	

Frequency Range	Mode of Operation	ESR	CL
8 MHz to 9.999 MHz	Fundamental	60 Ohms Max.	16 pF
10 MHz to 15.999 MHz	Fundamental	50 Ohms Max.	16 pF
16 MHz to 32 MHz	Fundamental	40 Ohms Max.	16 pF
28 MHz to 83.999 MHz	3rd Overtone	60 Ohms Max.	Series
84 MHz to 100 MHz	5th Overtone	80 Ohms Max.	Series

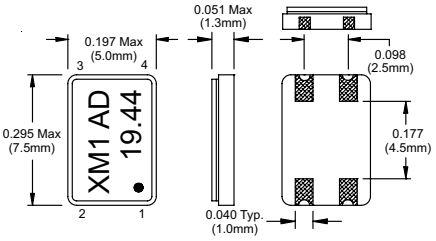
Environmental Characteristics

Vibration:	Vibration per Mil Std 883E Method 2007.3 Test Condition A
Shock:	Mechanical Shock per Mil Std 883E Method 2002.4 Test Condition B.
Soldering Process;	RoHS compliant lead free. See soldering profile on page 2.
Solderability;	Solderability per Mil Std 883E Method 2003

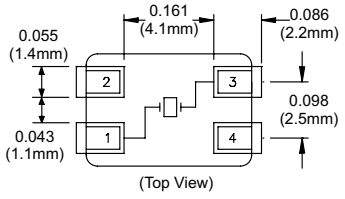
Ordering Information: Example: XM-1-019.44M 50/50/-10 60/16

Consult the factory for additional Crystal specifications for this package.

Package Outline



Suggested Pad Layout



RoHS COMPLIANT

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Date	15 Apr 2010

2111 Comprehensive Drive
Aurora, Illinois 60505
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Fax: 630-851-5040
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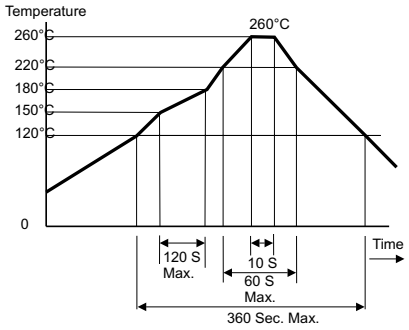
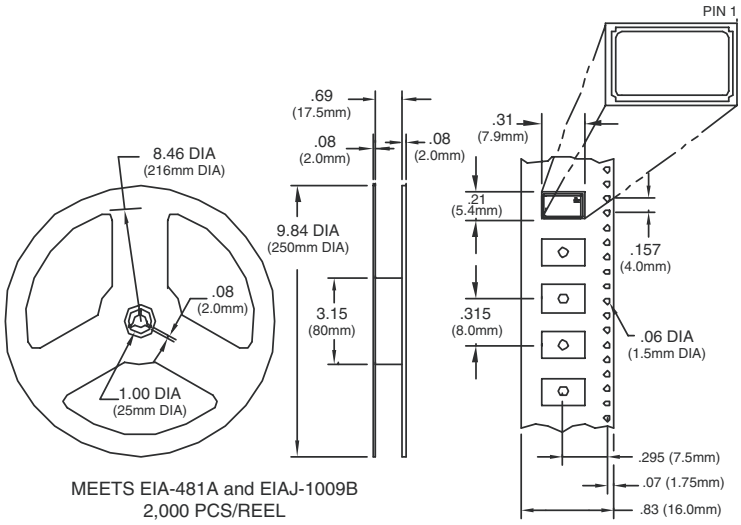
Pad Connections

: 1: Crystal Connection
2: N/C (Cover)
3: Crystal Connection
4: N/C (Cover)

Solder Profile



Tape and Reel Information



MEETS EIA-481A and EIAJ-1009B
2,000 PCS/REEL

RoHS COMPLIANT