

WX Series Low Frequency Crystal

August 2019

- The Pletronics' WX Series is a cylindrical watch crystal.
- 32.768 KHz only
- XY Cut Crystal
- Available in 2 sizes - WX:3x8mm, WX26:2x6mm

Pletronics Inc. certifies this device is in accordance with the RoHS 3 and WEEE 2 directives.

Pletronics Inc. guarantees the device does not contain the following:

Cadmium, Hexavalent Chromium, Mercury, PBB's, PBDE's

Weight of the Device: 0.042 grams

Moisture Sensitivity Level: 1 As defined in J-STD-020C

Second Level Interconnect code: e3

Part Number:

WX26	-32.768K	-6pF	-SMD	-xxx	
					Internal code or blank
					Only WX26 available in SMD
					WX26 available @ 6.0pF & 12.5pF load WX available @ 12.5pF load
					Nominal Frequency in KHz
					Model Number: WX: 3x8mm WX26: 2x6mm

Reliability: Environmental Compliance

Parameter	Condition
Mechanical Shock	MIL-STD-883 Method 2002, Condition A
Vibration	MIL-STD-883 Method 2007, Condition A
Solderability	MIL-STD-883 Method 2003
Thermal Shock	MIL-STD-883 Method 1011, Condition A



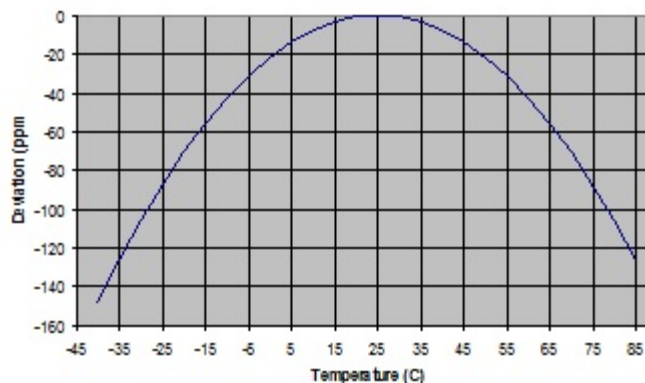
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Electrical Specification:

Item	Min	Max	Unit	Condition
Frequency	32.768		kHz	
Calibration Frequency Tolerance	-20	+20	ppm	at +25°C, (+/- 30 ppm @6.0 pF Load)
Equivalent Series Resistance	--	40K	Ohms	
Drive Level	--	1.0	uW	
Turn Over Temperature	20	30	°C	Nominal is 25°C
Temperature Coefficient	-0.034		ppm/°C ²	typical
Q Factor	30000	--	Q	
Load Capacitance	12.5		pF	Standard (see options in part # table)
Shunt Capacitance	1.7		pF	Pin to Pin Capacitance, Max
Aging (for first year)	-3	+3	ppm/Yr	at 25°C ± 3°C
Crystal Cut	XY Cut			
Operating Temperature Range for thru hole models	-10	+60	°C	
Operating Temperature Range For WX26-32.768K-SMD	-40	+85	°C	(30 ppm Std)
Storage Temperature Range	-55	+125	°C	
Shock Resistance	-5	+5	ppm	
Vibration Resistance	-5	+5	ppm	
Reflow Resistance	-10	+10	ppm	

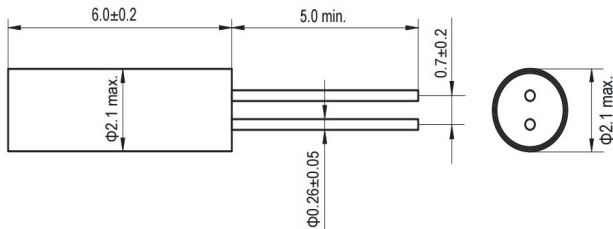
XY Crystal Frequency versus Temperature Typical Performance:



Mechanical:

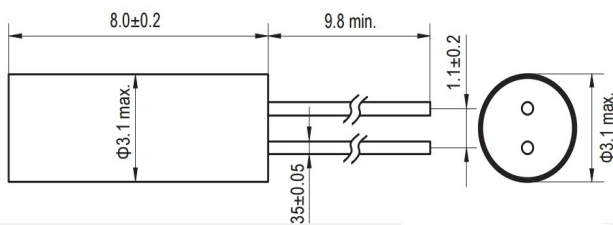
WX26:

2.0x6.0 mm

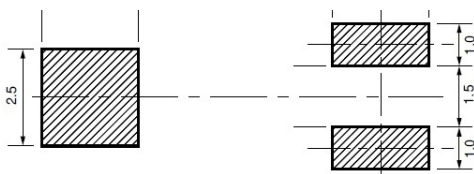
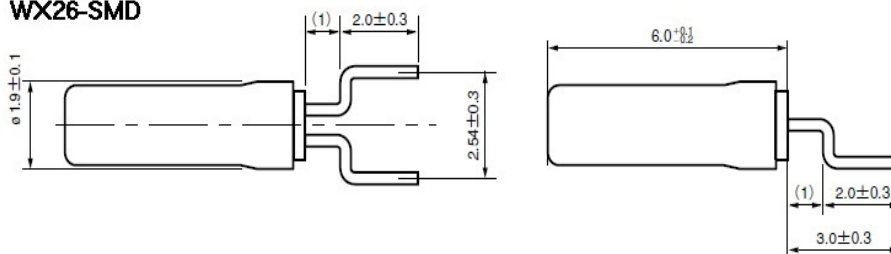


WX:

3.0x8.0 mm



WX26-SMD





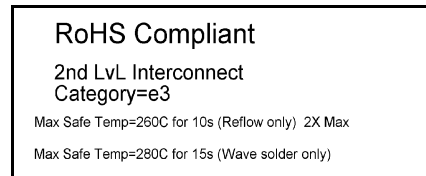
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Package Labeling

Label is 1" x 2.6" (25.4mm x 66.7mm)
Font is Courier New
Bar code is 39-Full ASCII

Label is 1" x 2.6" (25.4mm x 66.7mm)
Font is Arial



Part Marking:

- Marking consists of an internal manufacturing date code
- Orientation of marking may be mixed on the tape
- Traceability of part's specification is lost once removed from reel

Layout and application information

- Trace lengths to the crystal should be kept as short as possible.
- The crystal connections are sensitive to noise.



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