

90SMX & 91SMX Crystals



ISSUE 9; 30 APRIL 2008

Delivery Options

RoHS 2002/95/EC

Please contact our sales office for current leadtimes

Holder Style

90SMX & 91SMX surface mount crystals are plastic encapsulated

General Specifications

- Load Capacitance (C_L): 6pF and 12.5pF standard
- Drive Level: 1.0µW max
- Ageing ±5ppm max per year at 25°C

Packaging

 90SMX & 91SMX surface mount crystals are available packaged individually or on tape and reel

Standard Frequency Tolerance

■ ±20ppm

Operable Temperature Range

■ -40 to 85°C

Storage Temperature Range

■ -55 to 125°C

Environmental Specification

- Mechanical Shock: 75cm drop (3 times) onto hard wooden board
- Vibration: 1.5mm amplitude, 10Hz-60Hz, 2-3min in 3 directions (X, Y, Z axis) duration 2 hours each axis.

Marking

■ Frequency Indicator + Date Code

Marking Explanation (example: 32K152B)

The 32K is a code indicating frequency, in this case 32.768kHz

The 752 is the date code in YWW, ie.2007 wk 52

The letter on the end indictes: A for 90SMX, B for 91SMX

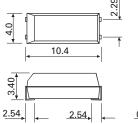
Note, if the letter is at the end of the crystal then it is 12.5pF loaded. If it apears after the 32K as 32KA152, then the crystal is 6pF loaded. This is the same for both 90SMX and 91SMX.

Minimum Order Information Required

Fax: +44 (0)1460 72578

■ Frequency + Holder + Load Capacitance

Outline in mm - 90SMX





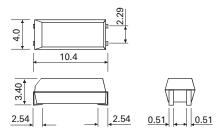
Solder pad layout

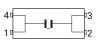




Electrical connection

Outline in mm - 91SMX

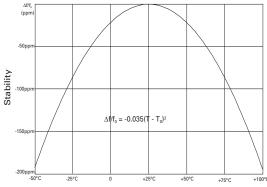




Electrical connection



Typical Frequency Stability Characteristic



e-mail: info@iqdfrequencyproducts.com

Temperature

Tel: +44 (0)1460 270200 Website: www.iqdfrequencyproducts.com

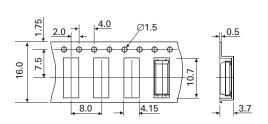


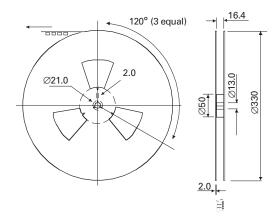
Electrical Specification - maximum limiting values

Outline in mm - Tape

Frequency Range	Frequency Tolerance @ 25°C ±5°C	Operable Temperature Range	Typical Frequency Stability Coefficient	ESR	Vibration
32.7680kHz	±20ppm	-40+85°C	-0.035/°C ²	50kΩ	Fundamental

Outline in mm - Reel





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