



# Pletronics, Inc.

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Manufacturer of High Quality Frequency Control Products

## SM26S Watch Crystal



- 2 Lead Surface Mount Tuning Fork Watch Crystal
- 2 x 2 x 6mm Axial Lead

**32.768 kHz**

### Standard Specifications

Calibration Frequency Tolerance ± 20 PPM at 25°C std

Operating Temperature Range (OTR) -40 to +85°C

Storage Temperature Range -55 to +85°C

#### Frequency Stability over OTR

Calculate as: Frequency shift from 25°C to T°C in PPM  
=  $-0.035 \times (T - 25)^2 \pm 10\%$

Load Capacitance 12.5 pF std, 6 pF available

Equivalent Series Resistance (ESR) 50 k ohm typ, 70 k ohm max

Drive Level 1µW maximum

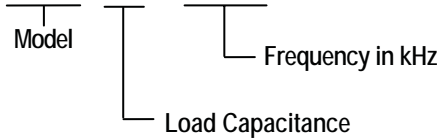
Aging at 25°C for the 1st year ± 3 PPM maximum

Motional Capacitance 2.1 fF typical

Static Capacitance 0.9 pF typical

### Part Numbering Guide

**SM26S - 12.5 - 32.768K - XXX** (Internal Code or blank)



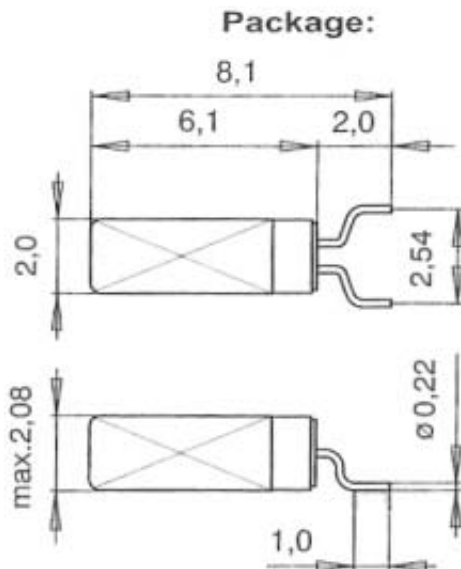
**Packaging**  
16mm tape  
4mm pitch

Consult factory for available specifications.  
A special part number may be assigned.

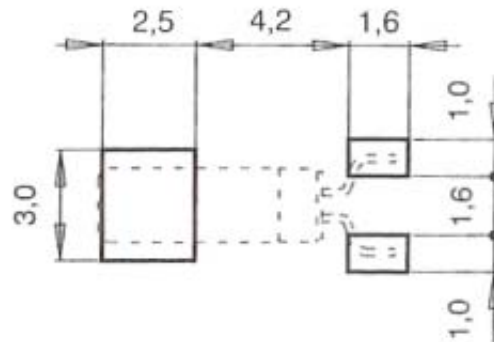
**Mechanical: mm**

**not to scale**

Parts are unmarked



### Recommended Solder Pad:



All dimensions in mm typical

Apr 2006