## ecify F

Cylindrical Watch Crystals



$A \qquad B$	Package Style         A         B         C         D         E           3x8         8.2         9.0         1.10         0.35         3.10           2x6         6.2         9.0         0.70         0.26         2.10           1x5         5.1         4.0         0.45         0.15         1.50
FEATURES	APPLICATIONS
<ul> <li>Range of Sizes</li> <li>Low Cost</li> <li>High Shock Resistance</li> <li>Extensive UK Stocks</li> </ul>	<ul> <li>Time Keeping</li> <li>Datacommunications</li> <li>Consumer Electronics</li> <li>Automotive Electronics</li> </ul>
STANDARD SPECIFICATION	AVAILABLE OPTIONS
Frequency Range: 32.768 kHz Adjustment Tolerance at 25°C: 20PPM Frequency Stability: -0.038PPM/°C <sup>2</sup> Operating Temperature Range: -10°C to +60°C Load Capacity: 12.5pF E.S.R: 35 kOhm Drive level: 1MicroWatt Ageing: 1PPM 1st Year Typ.	Frequency Range: 20 kHz to 165 kHz & 307.2kHz Adjustment Tolerance 20PPM 50PPM 100PPM Load Capacity: 6pF ~ Shunt Capacity (C0): 4.0pF Max Also available from stock is a 32.768 kHz crystal specifically designed for the Dallas Semiconductor RTC <sup>™</sup> Frequency Stability vs Operating Temperature Range
Frequency Range         E.S.R           20.0 kHz         ~ 29.9 kHz         55 k           30.0 kHz         ~ 39.9 kHz         45 k           40.0 kHz         ~ 59.9 kHz         20 k           60.0 kHz         ~ 69.9 kHz         15 k	Tuning fork crystals exhibit a parabolic temperature coefficient with a response curve typically as shown

Handling Note

Crystals utilising a tuning fork element should not be subjected to ultrasonic cleaning. This is because the blank can be damaged due to the frequency of the ultrasonic bath being in resonance with the crystal itself.

40.0 kHz 60.0 kHz 70.0 kHz 120.0 kHz

120.0 kHz

307.20 kHz

69.9 kHz

119.9 kHz

164.9 kHz

www.aelcrystals.co.uk quartz based frequency control components

Order Hotline +44 1293 524245

15 k

12 k

10 k

6 k

www.aelcrystals.co.uk sales@aelcrystals.co.uk