

FC CRYSTALS 5.0mm x 1.9mm x 0.9mm

DESCRIPTION

FC crystals are ultra-miniature surface-mount crystals specifically designed to provide 32.768kHz for real-time clocks. With their ultra-small size and rugged construction they are ideal for battery-powered, hand held miniature equipment applications.

FEATURES

- · Frequency 32.7680kHz
- Ultra-miniature size 5.0 x 1.9 x 0.9mm (height)
- · Low mass and rugged construction
- · Supplied on tape and reel

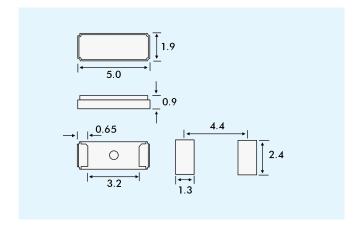
GENERAL SPECIFICATION

Nominal Frequency:	32.7680kHz		
Calibration Tolerance at 25°C:	± 20 ppm or ± 50 ppm (standard)		
Load Capacitance (CL):	12.5pF standard or 7pf		
Equivalent Series Resistance (R1)	65kW		
Drive Level:	0.5 m W max.		
Temperature Coefficient:	-0.04ppm/°C ²		
Peak Temperature:	+25°C±5°C		
Shunt Capacitance (CO):	0.8pF typical		
Motional Capacitance (C1):	1.9fF typical		
Ageing at 25°C:	±3ppm maximum, first year		
Insulation Resistance:	500MW minimum @100VDC		
Crystal Cut:	X-Cut		
Operating Temperature Range:	-40° to 85°C		
Storage Temperature Range:	-55° to +125°C		
Reflow Soldering:	10s maximum @+260°C, twice		
	or <230°C for 180s.		
Packaging:	16mm EIA Tape and Reel		
	3000 pieces per reel.		

PART NUMBERS

Frequency (kHz)	Load Capacitance	Part Number	Tolerance ±ppm/ Temp. Range °C	ESR Max. (W)
32.768	12.5pF	PH32768S	±20/-40+85	65k
32.768	7pF	PH32768T	±20/-40+85	65k

OUTLINES AND DIMENSIONS



STABILITY/TEMPERATURE PERFORMANCE

