

AG CRYSTALS

7.0mm x 1.5mm x 1.4mm

DESCRIPTION

AG crystals are ultra-miniature surface-mount crystals specifically designed to provide 32.768kHz for real-time clocks and 75kHz frequencies. With their ultra-small size and rugged construction they are ideal for battery-powered, hand held miniature equipment applications.

FEATURES

- Frequencies 32.768kHz and 75.0kHz
- Ultra-miniature size 7.0 x 1.5 x 1.4mm (height)
- Low mass and rugged construction
- Supplied on tape and reel

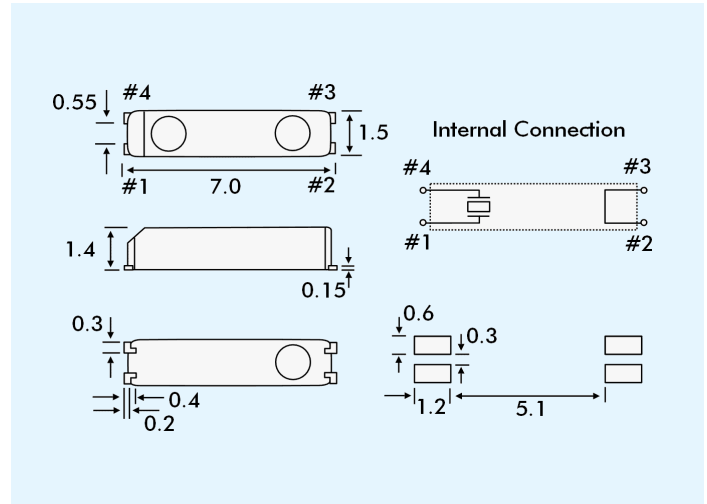
GENERAL SPECIFICATION

Nominal Frequency:	32.768kHz and 75.0kHz
Calibration Tolerance at 25°C:	±20ppm or ±50ppm (standard)
Load Capacitance (CL):	12.5pF standard or 7pF
Equivalent Series Resistance (R1)	
32.768kHz:	65kW
75.0kHz:	30kW
Drive Level:	1.0mW max., 0.5mW operating
Temperature Coefficient:	-0.04ppm/°C ²
Peak Temperature:	+25°C±5°C
Shunt Capacitance (C0):	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 3 minutes.
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	PH32768P	±20/-40+85	65k
32.768	7pF	PH32768Q	±20/-40+85	65k
75.000	12.5pF	PH75000R	±20/-40+85	30k

OUTLINES AND DIMENSIONS



STABILITY/TEMPERATURE PERFORMANCE

