

3.2 x 1.5 x 0.9mm Ultra-miniature 32.768kHz Crystal

- Frequency 32.7680kHz
- Ultra-miniature package: 3.2 x 1.5 x 0.75mm
- Low mass, rugged construction
- Packaged in standard EIA tape and reel

DESCRIPTION

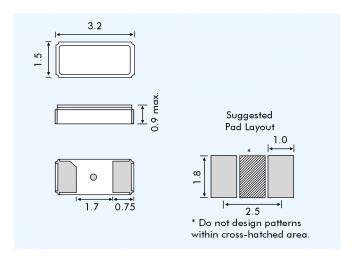
EQ156 crystals provide 32.768kHz in an ultra-miniature package. The part is designed to provide the smallest possible component size for real-time clock applications. Their miniature size and rugged construction make them ideal for battery powered, hand-held equipment.

SPECIFICATION

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	Nominal Frequency:	32.7680kHz			
	Calibration Tolerance at 25°C:	±20ppm			
	Operating Temperature Range:	-40 to +85°C			
	Storae Temperature Range:	-55 to +125°C			
	Load Capacitance (CL):	12.5pF or 7.0pF			
	Motional Capacitance (C1):	3.6fF typical			
	Shunt Capacitance (C0):	1.0pF typical			
	Equivalent Series Resistance (ESR):	70k Ohms			
	Drive level:	0.5 micro Watt maximum			
	Temperature Coefficient:	-0.04/°C ² maximum			
	Turnover Temperature:	+25°±5°C			
	Ageing:	±3ppm per year			
	Insulation Resistance:	500 MOhm minimum @100VDC			
	Crystal Cut:	X Cut			
	Reflow Soldering:	10s maximum at 260°C twice			
		or 180s at 230°C, once.			
	Packaging:	EIA tape and reel			



OUTLINE & DIMENSIONS



PART NUMBERS AND SPECIFICATION

Frequency (kHz)	CL (pF)	Stock Number	Tolerance (±ppm)/ Temp. Range (°C)/ Max. ESR (Ohms)
32.7680	12.5	PH32768F	20/-40+85/80k
32.7680	7.0	PH32768G	20/-40+85/80k

STABILITY OVER TEMPERATURE X-Cut Crystal

