



金華盈企業公司

Abundance Enterprise Company

Crystal Resonator

ZMR-145BJ

Features

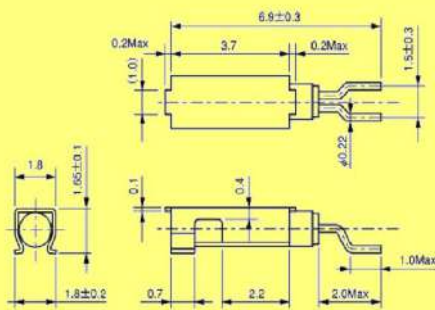
High Stability	Time keep clock signal
Small package	Suitable for telecommunication

Application

Watch and clock	Remote control
Telecommunication equipment	Consumer electronics



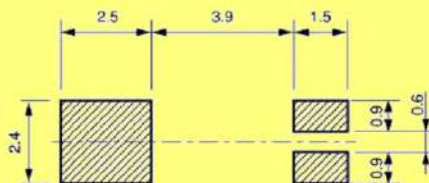
Dimension (Unit: mm)



Specification (Characteristics)

Item	Symbol	Specification
Frequency Range	f	32.768KHz
Frequency Tolerance (at 25°C +/-2°C)	$\Delta f/f$	+/-20ppm
Frequency Stability in Operating Temperature	$\Delta f/f$	See Frequency VS Temperature Curve
Load Capacitance	C _L	12.5pF
Operating Temperature Range	T _{opr}	-40°C to 85°C
Storage Temperature Range	T _{stg}	-55°C to 125°C
Resistance of Series	R _s	65KΩmax
Resonance Drive Level	PWR	1μ Watts max.
Shunt Capacitance	C ₀	1.1pF (typ.)
Motional Capacitance	C ₁	2.0fF (typ.)
Insulation Resistance	IR	500 Mega Ω Min./DC 100V
Aging Level	fa	+/-3.0ppm year /max.
Packing		Tape and reel Packages 1,000 pcs per reel 10,000 pcs per export carton

Recommended Soldering Pattern (Unit: mm)



Part Number Code	Holder Type + Frequency + Tolerance + C _L
Ordering Code	Same as Above
Example	ZMR-145BJ- 32.768K-20-12.5p

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