

SX99 kHz SURFACE-MOUNT CRYSTAL

FEATURES

- SMD package
- Plastic package with embedded heat resistant crystal in cylindrical package
- Extended temperature -40°C to +85°C for industrial applications
- Applications: Wireless Communications, Commercial and Industrial applications

8.0 x 3.8 x 2.5 mm



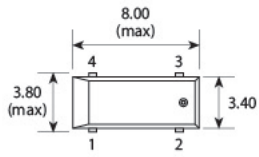
Item	Symbol	Specification
Nominal Frequency	Fo	32.768 kHz / 30.0 kHz ~ 100 kHz *
Cut		XY-cut
Operating temperature Range	To	-40° to +85°C
Frequency Tolerance at 25°C	Δf/F	± 20ppm standard (see options)
Temperature coefficient	β	-0.040 ppm/°C² max
Load Capacitance (CL)	CL	12.5 pF standard (see options)
Equivalent Series Resistance	ESR	50 kΩ max.
Quality Factor	Q	70000 ~ 100000 typ.
Shunt Capacitance (Co)	Co	1.35 pF typ.
Insulation Resistance	Ri	500 MΩ min. (at 100Vdc)
Drive Level	DL	1.0 μW max.
Aging	Δf/F	±3ppm max (at 25°C, first year)
Packing Unit		3000pcs / reel
Soldering Condition		260°C, 10 sec x2 max
		Customer specifications on request

* Need to contact us for the available frequency

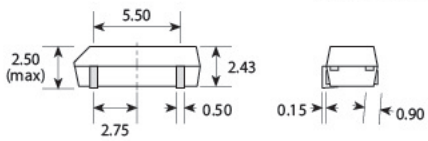
OPTIONS & ORDERING INFORMATION

SX99- kHz
Freq. Tolerance	Load Capacitance	Frequency in kHz
10 = ±10 ppm	12.5 = 12.5 pF	Please specify the frequency in kHz
20 = ±20 ppm	9 = 9.0 pF	
30 = ±30 ppm	6 = 6.0 pF	

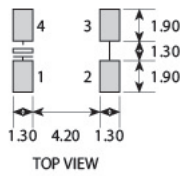
OUTLINE DIMENSIONS



ACTUAL SIZE



SOLDER PAD LAYOUT



TOP VIEW