Frequency Technology

15 32.768 kHz SURFACE-MOUNT CRYSTAL

FEATURES

• Smallest industry package size for 32.768 kHz

• Extended temperature -40/+85°C for industrial applications

• Applications : Wireless applications , Commercial and Industrial applications





Item	Symbol	Specification
Nominal Frequency	Fo	32.768 kHz
Cut		XY-cut
Operating temperature Range	То	-40° to +85°C
Frequency Tolerance at 25°C	Δf/F	± 20ppm standard (see options)
Temperature coefficient	ß	-0.040 ppm/°C² max
Load Capacitance (CL)	CL	12.5 pF standard (see options)
Equivalent Series Resistance	ESR	90 k Ω max.
Insulation Resistance	Ri	500 MΩ min. (at 100Vdc)
Drive Level	DL	0.5 μW max.
Aging	Δf/F	±3ppm max (at 25°C, first year)
Packing Unit		3000pcs / reel
Soldering Condition		260 °C, 10 sec x2 max

OPTIONS & ORDERING INFORMATION

X15-			32.768 kHz
	Freq. Tolerance	Load Capacitance	
	10 = ±10 ppm	12.5 = 12.5 pF	
	20 = ±20 ppm	9 = 9.0 pF	
	30 = ±30 ppm		
	50 = ±50 ppm		





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OUTLINE DIMENSIONS







