

CRYSTAL SPECIFICATION

Partnumber	X21-20-7 32K768	Date	
Customer PN		Ref	

CRYSTAL SPECIFICATIONS

Frequency	32.768 kHz
Package*	X21
Dimensions L x W x H	2.0x1.2x0.6 mm
Packing	T&R
Packing Unit	3000 pcs / reel

* This part is Lead-free and full RoHS compliant.

ELECTRICAL SPECIFICATIONS

Mode of vibration	Fundamental
Load Capacitance	7.0 pF
Equivalent Series Resistance	70 kOhm max @ 25°C
Shunt Capacity Co	1.3 pF typ.
Drive Level	1.0 μW max.
Insulation Resistance	500 Mohm min.

FREQUENCY STABILITY

Temperature range	-40° to +85°C
Calibration @ 25°C	+20 ppm max
Stability vs temperature	-0.033 ppm /°C ² typ.
Ageing 1 st year	+3 ppm max

CRYSTAL SPECIFICATION

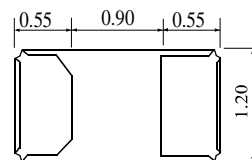
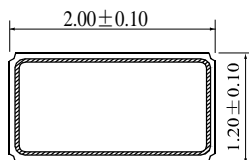
ENVIRONMENTAL CONDITIONS

Storage temperature	-55° to +125°C
Shock	MIL-STD-202F method 213B , test condition : E , 1000G ½ sine wave
Vibration	MIL-STD-202F method 204 , 35G , 50 to 2000 Hz
Humidity	85% RH , 85°C for 48 hours
Solderability	MIL-STD-202F method 208E
Fine Leak / Gross Leak	MIL-STD-883 method 1014 , condition A / MIL-STD-883 method 1014 , condition C
Resistance to Solvent	MIL-STD-202 method 215
Temperature Cycling	MIL-STD-883 method 1010
Reflow	260°C for 10 sec. 2X

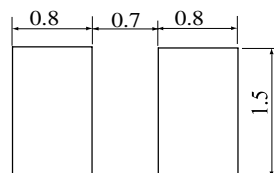
MARKING

Lotcode

OUTLINE DRAWING



Recommended Solder Pattern



REVISIONS

DATE

REVISIONS	DATE