

CRYSTAL SPECIFICATION

Partnumber	X20-1010F16F48.000MHz	Date	28.02.2014
Customer	Mennen Medical	Ref	HM7405

CRYSTAL SPECIFICATIONS

Frequency	48.000 MHz
Package*	X20
Dimensions L x W x H	2.0x1.6x0.5 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	16 pF
Equivalent Series Resistance	60 Ohm max
Shunt Capacity Co	3 pF max
Drive Level	100 µW typ.
Insulation Resistance	500 Mohm min.

FREQUENCY STABILITY

Temperature range	-20° to +75°C
Calibration @ 25°C	+10 ppm max
Stability vs temperature	+10 ppm max
Ageing 1 st year	+2 ppm max

ENVIRONMENTAL CONDITIONS

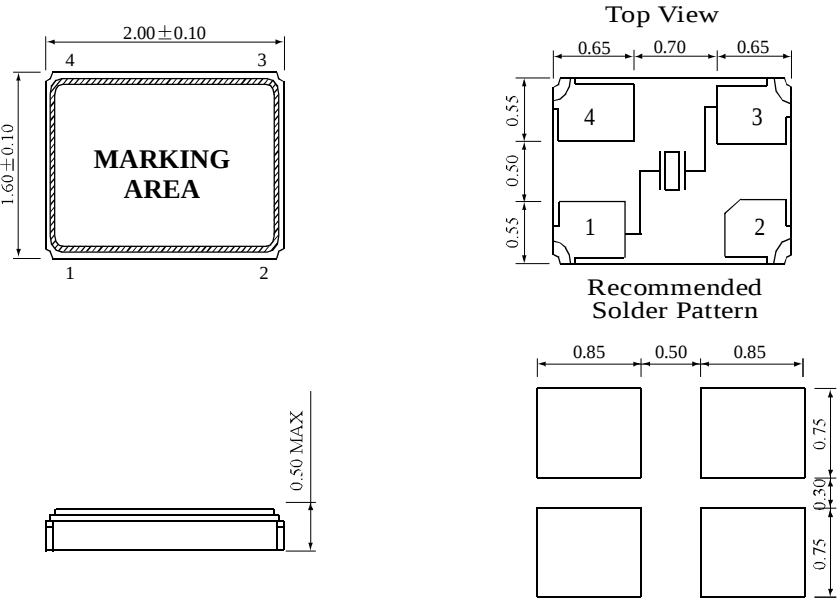
Storage temperature	-55° to +125°C
Shock	MIL-STD-202F method 213B , test condition : E , 1000G ½ sine wave
Vibration	MIL-STD-202F method 204 , 35G , 50 to 2000 Hz
Humidity	85% RH , 85°C for 48 hours
Solderability	MIL-STD-202F method 208E
Fine Leak / Gross Leak	MIL-STD-883 method 1014 , condition A / 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

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MARKING

48.00

OUTLINE DRAWING



REVISIONS		DATE