



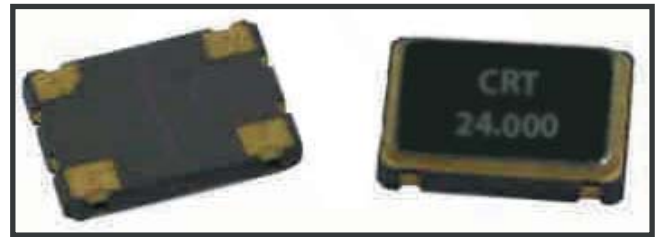
QUARTZ CRYSTAL - HC6F SERIES

Seam Sealed Ceramic 7.0 X 5mm

Surface Mount Package

FEATURES

- Ultra thin, thickness 1.0mm
- Leadless type
- High precision characteristics covering up to high frequency range
- Automatic mounting
- Embossed tapping specifications
- Reflow soldering



ELECTRICAL SPECIFICATIONS

Nominal frequency	8.000MHz to 110MHz
Operating temperature	-10 to 60°C (Standard) <i>optional:</i> -20 to 70°C , -40 to 85°C
Storage temperature	-55 to 125°C
Frequency tolerance	±10ppm ~ ±50ppm
Frequency Stability over operating temperature range	±30ppm -10 to 60°C ±50ppm -20 to +70°C
Load Capacitance	16pF, 18pF, 20pF, 30pF, 32pF, series or specify
Equivalent series resistance (ESR)	See Table
Shunt capacitance(Co)	5pF Max
Drive Level	10µW ~100µW
Aging @25°C 1st year (max)	±3ppm, ±5ppm/year

ESR and OPERATING MODE

Frequency Range MHz	E.S.R (Ω Max)	Mode
6.000~15.999	40	Fundamental AT
16.000~32.000	35	Fundamental AT
30.000~44.999	80	Third Overtone/AT
45.000~89.999	70	Third Overtone/AT
90.000~110.000	75	Third Overtone/AT

Mechanical Characteristics

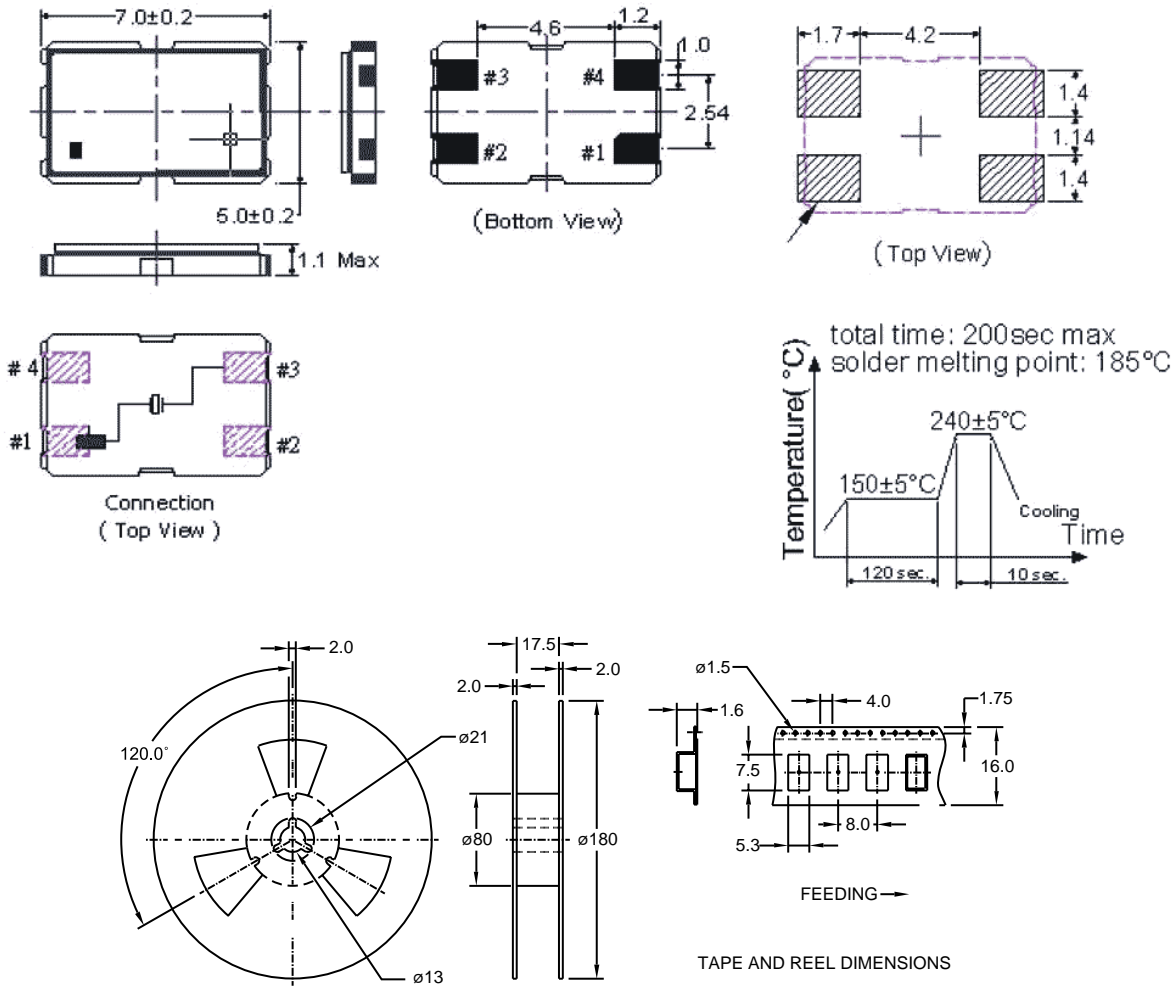
Resistance to shock:	Drop test 3 times on 2mm stainless plate at 75cm height
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Dimensions



Ordering

HC6F -	16.000	- 16	- 30	- A
Series	Frequency in MHz	Load Capacitance (pf)	Frequency Tolerance in ppm	Operating Temperature Range
	Please specify frequency required.	Options: 12,16,18,20, 30, s (= series), or specify	±30ppm (std)	A= -10 to 60°C (std) B= -20 to 70°C C= -40 to 85°C