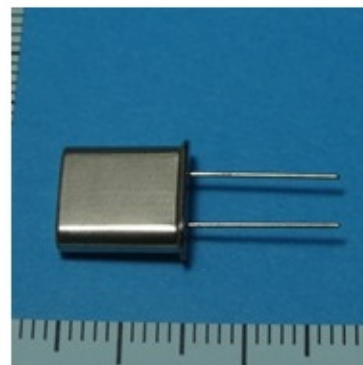
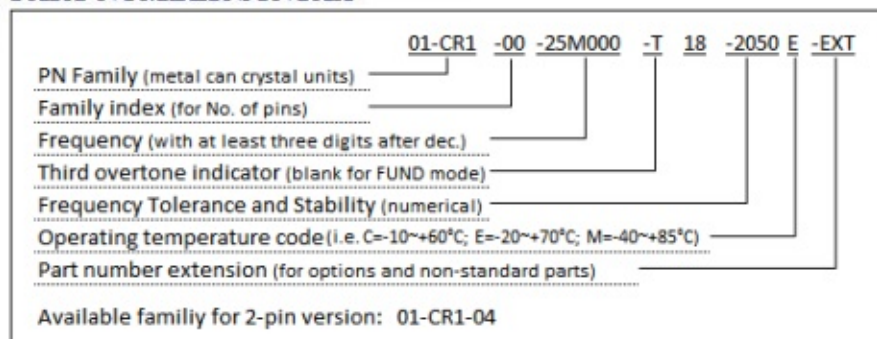


### QUARTZ CRYSTAL UNITS IN HC-49/T PACKAGE

#### PART NUMBER SYNTAX



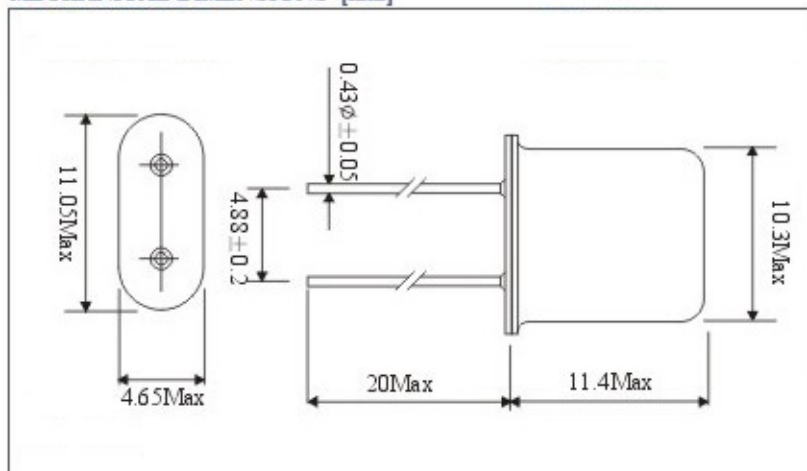
#### PRODUCT SPECIFICATIONS

Frequency Range (Fo)	8.0MHz ~ 90.0MHz						
Frequency Tolerance at 25°C ( $\Delta f/f_0$ )	$\pm 30$ ppm (typ)	$\pm 10$ ppm	$\pm 15$ ppm	$\pm 50$ ppm	$\pm 30$ ppm	$\pm 50$ ppm	$\pm 50$ ppm
Temperature Stability (REF To 25°C)	$\pm 30$ ppm (typ)	$\pm 10$ ppm	$\pm 30$ ppm	$\pm 50$ ppm	$\pm 30$ ppm	$\pm 50$ ppm	$\pm 100$ ppm
Operating Temperature Range (TOPR)	-20°C to 70°C				-40°C to 85°C		
Storage Temperature Range (TSTG)	-40°C to 85°C						
Shunt Capacitance (Co)	7pF Max						
Load Capacitance (CL)	10 to 32pF or Series Resonant						
Insulation Resistance	500 Mega ohms Minimum at 100V DC						
Drive Level	1m Watts Max						
Aging (at 25°C)	$\pm 5$ ppm/year Max						

#### EQUIVALENT SERIES RESISTANCE ESR

Frequency Range	Max ESR( $\Omega$ )	Mode	Frequency Range	Max ESR( $\Omega$ )	Mode
8.000MHz to 12.999MHz	30	Fundamental	24.000MHz to 29.999MHz	50	Third Overtone
13.000MHz to 30.999MHz	25	Fundamental	30.000MHz to 90.000MHz	40	Third Overtone

#### MECHANICAL DIMENSIONS [mm]



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