

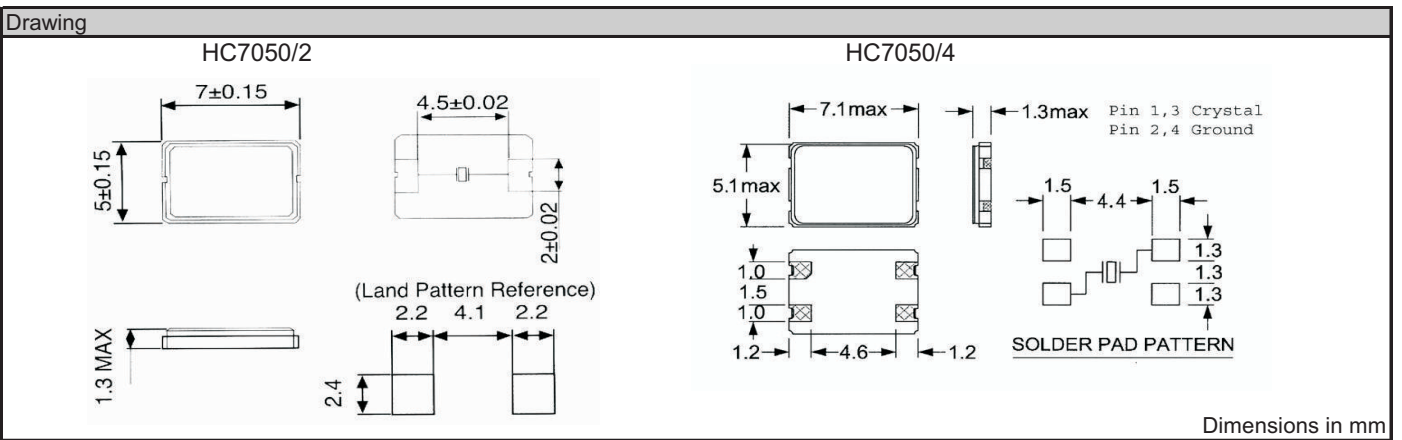
HC7050/2  
HC7050/4

Features:

- SMD ceramic enclosures
- High reliability seam welded seal
- Frequency up to 125 MHz
- Ultra thin profile

Specifications				
		Symbol	HC7050	Remarks
Frequency range		f	6.000MHz ~ 30.000MHz 30.000MHz ~ 125.000MHz	Fundamental mode Overtone mode
Frequency tolerance, Ta=25°C		$\Delta f/f$	$\pm 10\text{ppm} \sim \pm 50\text{ppm}$	Others are offered
Load capacitance		$C_L$	10pF ~ 32pF	Please specify
Temperature tolerance		$\Delta f/f$	$\pm 10\text{ppm} \sim \pm 50\text{ppm}$	Others are offered
Temperature range	Storage temperature	$T_{STG}$	-40°C ~ +85°C	
	Operating temperature	$T_{OPR}$	-20°C ~ +70°C	Others are offered
Drive level	Maximum drive level	$M_{DL}$	500µW	
	Recommended drive level	$R_{DL}$	10µW ~ 100µW	
Series resistance		$R_1$	As per table	25°C $\pm 3^\circ\text{C}$
Shunt capacitance		$C_0$	7pF	Max
Insulation resistance		$I_R$	500M Ohm	Min
Aging		$\Delta f_A$	$\pm 3\text{ppm/Year max}$	Others are offered

Resistance of series resonance (ESR)					
Frequency (MHz)	Mode	Ohm max	Frequency (MHz)	Mode	Ohm max
6 ≤ f < 8	Fundamental	100	30 ≤ f < 40	3rd OT	100
8 ≤ f < 16	Fundamental	80	40 ≤ f < 125	3rd OT	80
16 ≤ f < 30	Fundamental	50			



Order key								
Q	- 30.000000M	- HC7050/2	- F	- 30	- 50	- D	- 30	- TR
Part	Frequency	Package	Mode of oscillation	Frequency tolerance	Temperature tolerance	Temperature range	Load capacitance	Option
Q=Quartz	M=MHz	HC7050/2 HC7050/4	F=fund. 3=3.OT	$\pm\text{ppm}$ (25°C)	$\pm\text{ppm}$ (Temp. range)	A= 0°C ~ +70°C B= -10°C ~ +60°C C= -10°C ~ +70°C D= -20°C ~ +70°C E= -40°C ~ +85°C H= -20°C ~ +80°C I = -10°C ~ +50°C	pF SR=series	TR=Tape and reel X=Special options
		/2 = 2 pads /4 = 4 pads						