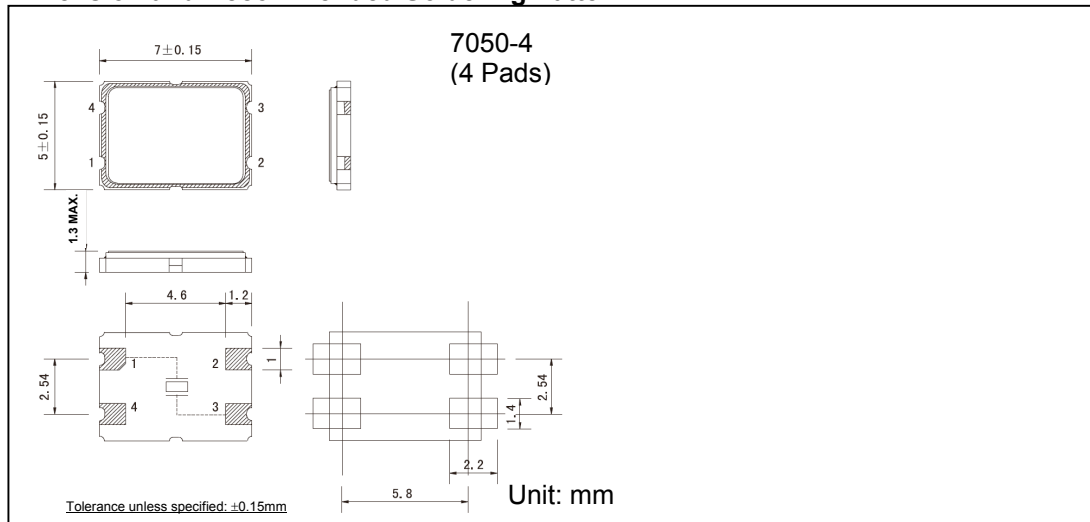




### Quartz Crystal Unit (7.0 x 5.0 x 1.3mm)

#### ● Dimension and Recommended Soldering Pattern



RoHS Compliant  
Directive 2002/95/EC

REACH Compliant  
(15 SVHCs)  
Regulation (EC) No.  
1907/2006

TS16949:2002  
Certified

#### ● Electrical Specifications

Holder type		7050-4 (7.0 x 5.0 x 1.3mm, surface-mounted, four pads)
Frequency range	Fo	5.500MHz to 150.000MHz
Frequency tolerance (at 25°C)	$\Delta F$	$\pm 10\text{ppm}$ to $\pm 100\text{ppm}$
Frequency drift	Tc	$\pm 10\text{ppm}$ to $\pm 100\text{ppm}$
Operating temperature range	T0	-10°C ~ +60°C to -40°C ~ +85°C
Storage temperature range	TS	-40°C ~ +85°C to -55°C ~ +125°C
Aging (at 25°C)		$\pm 5\text{ppm}$ / year max.
Shunt capacitance	C0	7pF max.
Drive level	DL	100 $\mu\text{W}$ (typical)
Insulation resistance	Ri	500M $\Omega$ min. at DC100V
Load capacitance	CL	Suggested by customer

- The above information is for reference only. For other frequencies or specifications, please consult with our sales representatives for details.

#### ● Equivalent Series Resistance and Mode of Operation

Frequency range	Equivalent series resistance	Mode of operation
5.500MHz to 7.999MHz	100 $\Omega$ max.	Fundamental
8.000MHz to 9.999MHz	60 $\Omega$ max.	Fundamental
10.000MHz to 13.999MHz	50 $\Omega$ max.	Fundamental
14.000MHz to 19.999MHz	40 $\Omega$ max.	Fundamental
$\geq 20.000\text{MHz}$	30 $\Omega$ max.	Fundamental
35.000MHz to 150.000MHz	80 $\Omega$ max.	3 <sup>rd</sup> Overtone

- The above information is for reference only. For other frequencies or specifications, please consult with our sales representatives for details.