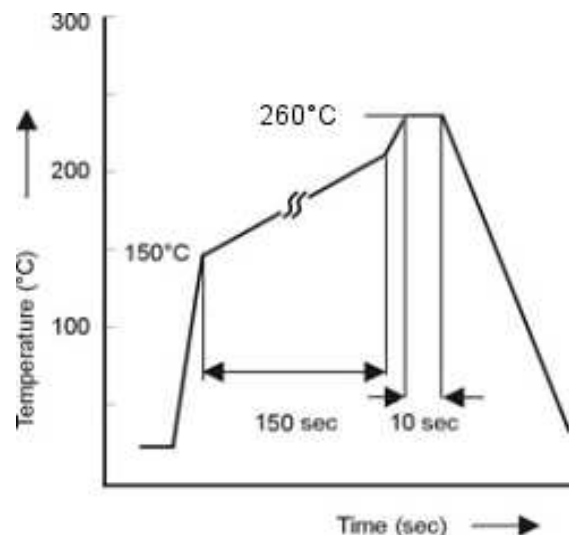
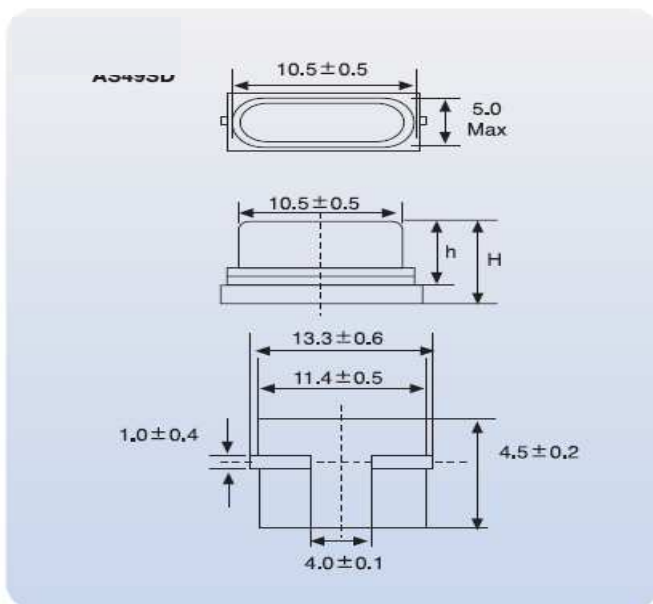


# IC 21

## Quartz Crystal Unit

## HC 49 US

Dimensions l/w/H in mm (max)	<b>13,3 x 5,0 x 3,8</b>	
Frequency	3,20 MHz to 70,0 MHz	
Operating Temperature	Refer to Ordering Guidance	
Frequency Tolerance at 25°C	Refer to Ordering Guidance	
Frequency Stability in Operating Temp. Range	Refer to Ordering Guidance	
Storage Temperature	-55°C to +125°C	
Load Capacitance (CL)	16 pF/ 18 pF/ 20 pF/ 30 pF/ 32 pF or series	
Shunt Capacitance (C0)	7,0 pF max.	
Series Resonance (R1)	3,2 MHz ~ 4,99 MHz	150 Ohm
	5,0 MHz ~ 6,99 MHz	100 Ohm
	7,0 MHz ~ 8,99 MHz	80 Ohm
	9,0 MHz ~ 12,99 MHz	60 Ohm
	13,0 MHz ~ 19,99 MHz	40 Ohm
	20,0 MHz ~ 33,0 MHz	30 Ohm
	27,0 MHz ~ 70,0 MHz	100 Ohm (3 <sup>rd</sup> OT)
Drive Level $\mu$ W max.	100 max.	
Aging (df/F) first year at 25°C	$\pm$ 3 ppm	



# Ordering Guidance

IC - Quartz																											
QS-Digits:	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20							
QS- Eingabe/Enter:	I	C	1	3	0	3	2	,	7	6	8	M	1	2	,	5	A	B	1	B							
Bezeichnung/Indic.:	Gruppe		Grösse		Frequ./FRQ/Fliesskomma							Hz	Load/CL/uF			Fto	Fst	OM	TR								
<b>IC-Applications:</b> Portable instruments Industrial products Battery powered prod.	IC Quartz		Size code + packg. code 1-13 = 3K/RL, ab 14 = 1K/RL									H/K/M/G			F.tol. at 25° in ppm			F.stab. in Operating Temp. Range		Oscillation Mode		oper. Temp. in °C					
																								A	10	A	10
																								B	15	B	15
																								C	20	C	20
																								D	25	D	25
																								E	30	E	30
																								F	50	F	50
																								G	100	G	100
																										H	-0,034
																										I	-0,042
												1 Fund		3 3rd OT		5 5th OT											
												A 0°C to +70°C		B -20°C to +70°C		C -10°C to +60°C		D -10°C to +70°C		E -40°C to +85°C		F -45°C to +125°C		G best			

