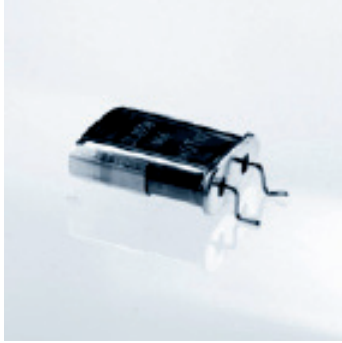


DATENBLATT / DATASHEET



Specification: QTCC-HC49USMD

Crystal unit: HC-49/U SMD



Scale 1:1  
H = 13,2 mm  
H = 10,6 mm  
H = 9,2 mm

Date: 11.03.2009  
ROHS compliance

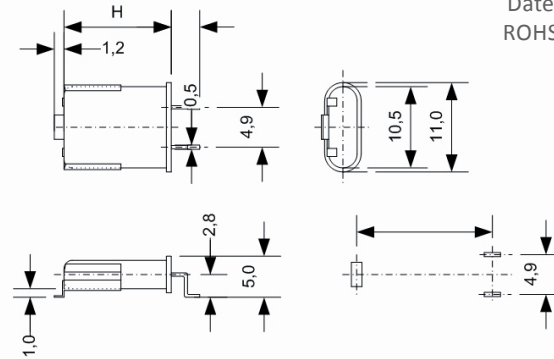


TABLE 1

	1,8 ... 160 MHz	UNIT	CONDITION
Frequency range	1,8 - 160	MHz	
Crystal cut	AT		
Enclosure	HC-49/U-SMD		
Mode	1. 1,8 – 40 MHz 3. 20 – 100 MHz 5. 80 – 160 MHz		Fundamental mode 3 <sup>rd</sup> overtone 5 <sup>th</sup> overtone
Load capacitance	10 – 50 pF or Series	pF	
Shunt capacitance	7 pF max.	pF	
Motional capacitance			
Resistance R <sub>R</sub>			see table 2
Frequency adjustment at +25°C	± 10 to ± 100	ppm	
Frequency stability over temperature	- 20 to +70°C: ± 10 to ± 100 - 40 to +85°C: ± 20 to ± 100 - 40 to +105°C: ± 30 to ± 100	ppm	
Aging 1 <sup>st</sup> year	± 3	ppm	
Drive level	0,1	mW	
Packing	Bulk / Tape & reel		

TABLE 2

MAX. RESISTANCE R <sub>R</sub>	MODE	FREQUENCY / MHz	R <sub>MAX</sub> / Ohm	
	1	1,8 – 2,44	500	
		2,45 – 2,99	400	
		3,00 – 3,49	200	
		3,50 – 4,39	150	
		4,40 – 4,99	100	
		5,00 – 5,99	70	
		6,00 – 9,99	50	
		10,0 – 19,9	30	
		20,0 – 40,0	20	
		3	20,0 – 39,9	40
			40,0 – 100,0	50
		5	50,0 – 150,0	100