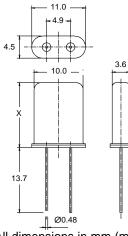
HC-49/U

Quartz Crystal Units AT-Cut, 2.4 - 300 MHz



HC-49/U: X = 13.4 HC-49/11mm: X = 11.5 HC-49/9mm: X = 9.8

HC-49/9mm starting with 4.5 MHz

DIN 45110: M4 IEC 122-3: DP NFC-93-601: n⁰ 5 MIL-H-10056: HC-49/U Welded metal enclosure (inert atmosphere) with wire leads

All dimensions in mm (max)

			Temperature Stability in the Temperature Range						
HC-49/U			-55°C+105°C		-20°C+70°C				Nom. Temp. ± 5°C ¹)
Overtone	Frequency [MHz]	Туре	\pm 50ppm	\pm 25ppm	$\pm 20 \text{ppm}$	± 10ppm	± 7ppm	± 5ppm	± 2ppm
	2.45.2	XS 27xx	01	02	03	04	06		05
1.OT	5.210	XS 27xx	01	02	03	04	06	07	05
	1030	XS 28xx	01	02	03	04	06	07	05
3.OT	20100	XS 28xx	11	12	13	14	16	17	15
5.OT	50160	XS 29xx	01	02	03	04	06	07	05
7.OT	110210	XS 30xx	01	02	03	04	06	07	05
9.OT	150300	XS 31xx	01	02	03	04	06	07	05

Calibration tolerance: ± 10 ppm

¹) Nom. Temp. = Nominal temperature for oven application to be given with the order.

Motional Resistance R1

Overtone	Frequency	R1max	
	[MHz]	[Ω]	
1. OT	2.43	250	
1. OT	35.2	120	
1. OT	5.26	80	
1. OT	68	60	
1. OT	810	40	
1. OT	1015	30	
1. OT	1535	25	
3. OT	20100	40	
5. OT	50160	60	
7. OT	110210	100	
9. OT	150300	200	

Standard resonance for fundamental crystals: load resonance with $C_L = 30 \pm 0.5 pF$ Overtone crystals: series mode Shunt capacitance: $C_0 = 7pF$ max

Crystal units with different tolerances or additional data upon request.

Modifications:

HC-49/U-3, HC-49/11mm-3, HC-49/9mm-3:3rd wire (ground)

HC-49/U-S, HC-49/11mm-S: HC-49/U-3-S, HC-49/11mm-3-S: SMD-Versions with metal clip.

3-point mounting for exposure to extreme accelerations (shock and vibr.) 3-point mounting for exposure to extreme accelerations (shock and vibr.)



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