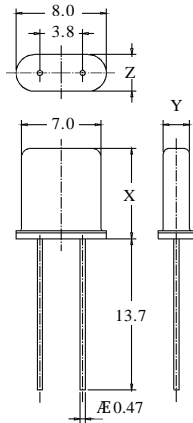




HC-52/U



Quartz Crystal Units AT-Cut, 5 - 300 MHz



All dimensions in mm (max)

Options Package Height:

	X	Y	Z	Adder to PartNr.
HC-52/U:	8.8	2.3	3.3	
HC-52/8mm:	8.0	2.3	3.3	XS 71xxA
HC-52/6mm:	6.0	2.3	3.3	XS 71xxB

HC-52/6 mm: starting with 15MHz

DIN 45110:	N4
IEC 122-3:	EB
NFC 93-601:	n ^o 17
MIL-H-10056:	HC-52/U
Welded metal enclosure (inert atmosphere) with wire leads	

HC-52/U			Temperature Stability in the Temperature Range						Nom. Temp. $\pm 5^{\circ}\text{C}^1)$
			-55°C...+105°C		-20°C...+70°C				
Overtone	Frequency [MHz]	Type	$\pm 50\text{ppm}$	$\pm 25\text{ppm}$	$\pm 20\text{ppm}$	$\pm 10\text{ppm}$	$\pm 7\text{ppm}$	$\pm 5\text{ppm}$	$\pm 2\text{ppm}$
1.OT	5...10	XS 71xx	01	02	03	04	06	-----	05
	10...35	XS 71xx	01	02	03	04	06	07	05
3.OT	25...100	XS 71xx	11	12	13	14	16	17	15
5.OT	60...160	XS 71xx	21	22	23	24	26	27	25
7.OT	110...210	XS 71xx	31	32	33	34	36	37	35
9.OT	150...300	XS 71xx	41	42	43	44	46	47	45

Calibration tolerance: $\pm 10\text{ ppm}$

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

Motional Resistance R1

Overtone	Frequency [MHz]	R1max [Ω]
1. OT	5...10	80
1. OT	10...15	50
1. OT	15...20	40
1. OT	20...35	30
3. OT	25...50	100
3. OT	50...100	90
5. OT	60...80	150
5. OT	80...160	100
7. OT	110...210	150
9. OT	150...300	200

Standard resonance for fundamental crystals: load resonance with $C_L = 30 \pm 0.5\text{pF}$
Overtone crystals: series mode

Shunt capacitance: 5...10MHz: $C_0 = 2.2\text{pF} \pm 0.8\text{pF}$
10...300MHz: $C_0 = 3.0\text{pF} \pm 1.0\text{pF}$

Crystal units with different tolerances or additional data upon request.

Modifications:

3rd wire (ground) :

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

3-point mounting for exposure to extreme accelerations (shock and vibr.) and 3rd wire (ground) :

SMD-Versions with metal clip :

Corresponding modified PartNr.

71xx -3

XS 71xx -S

XS 71xx -S-3

XS 71xx -SMD

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