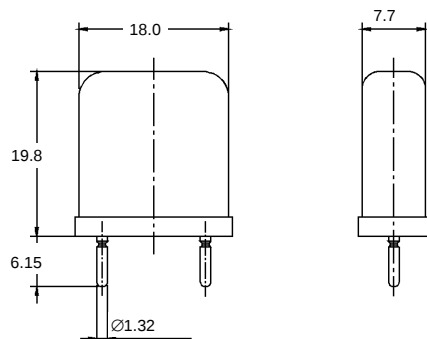
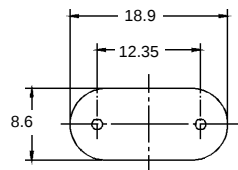


Quartz Crystal Units AT-Cut, 1 - 300 MHz



All dimensions in mm (max)

DIN 45110: Q1A
IEC 122-3: DA
NFC-93-601: n^o 8
MIL-H-10056: HC-27/U
Vacuum sealed glass enclosure
Crystal sockets F01, F02, F08
**Quartz crystal units with
aging < ± 1ppm / year**

HC-27/U			Temperature Stability in the Temperature Range						
			-55°C...+105°C		-20°C...+70°C				Nom. Temp. ± 5°C ¹⁾
Overtone	Frequency [MHz]	Type	± 50ppm	± 25ppm	± 20ppm	± 10ppm	± 7ppm	± 5ppm	± 2ppm
1.OT	0.8...3.0	XS 35xx	01	----	03	----	----	----	05
	3.0...8.0	XS 35xx	11	12	13	14	16	----	15
	8.0...30	XS 36xx	01	02	03	04	06	07	05
3.OT	15...90	XS 37xx	01	02	03	04	06	07	05
5.OT	40...150	XS 38xx	01	02	03	04	06	07	05
7.OT	100...210	XS 39xx	01	02	03	04	06	07	05
9.OT	150...300	XS 39xx	11	12	13	14	16	17	15

Calibration tolerance: ±10 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	1.0...1.5	500
1. OT	1.5...2.0	220
1. OT	2.0...3.0	110
1. OT	3.0...5.0	60
1. OT	5.0...8.0	30
1. OT	8.0...15	20
1. OT	15...30	10
3. OT	15...90	30
5. OT	40...150	50
7. OT	110...210	100
9. OT	150...300	180

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

Crystal units with different tolerances or additional data upon request.



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