

QUARTZ CRYSTALS

Crystal type	Package type	Frequency range (overtone)	Frequency tolerance, *10 ⁻⁶	Motional resistance, Ohm
QR-MV-379	HC-49	420...550 kHz (1)	±30	< 3000
QR-MV-379	HC-49, HC49-SMD	4000... 45000 kHz (1)	±5...±30	20...100
		20 ...90 MHz (3)		
	60 ...200 MHz (5)			
HC-52, HC52-SMD	5000 ... 45000 kHz (1)	±5...±30	30...150	
	20...140 MHz (3)			
HC-33	60 ...200 MHz (5)	±10...±20	30...600	
	750...8000 kHz (1)			
1000...8000 kHz (1)				
QR-MV-432	HC-49/S	10000...25000 kHz (1)	±15...±50	< 25

Standard frequency stability versus temperature changes

Temperature range, °C	Frequency stability × 10 ⁻⁶									
	±3	±5	±7,5	±10	±15	±20	±25	±30	±40	±50
	I	K	L	M	N	P	R	S	T	U
A -10...+60	A	A	A	A	A	A	A	A	A	A
B -30...+60	NA	NA	C	A	A	A	A	A	A	A
C -40...+70	NA	NA	NA	C	A	A	A	A	A	A
D -60...+85	NA	NA	NA	NA	NA	A	A	A	A	A

A - available, NA - not available, C - consult factory

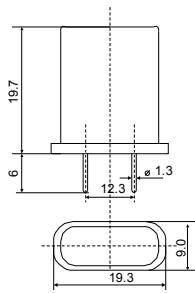
Frequency tolerance accuracy

Frequency accuracy, *10 ⁻⁶	+ 0,5	+ 1	+ 3	+ 5	+ 10	+ 15	+ 20	+ 30	+ 50	+ 75	+ 100
Designation	1	2	3	4	5	6	7	8	9	10	11

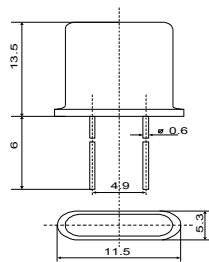
Ordering guide: QR-MV-379-HC-52-5AI-38.4625M, where

- QRMV-379 - crystal type;
- HC-52 - package type (HC-49, HC-52, HC-33);
- 5 - designation of frequency accuracy;
- A - temperature range;
- I - frequency stability.

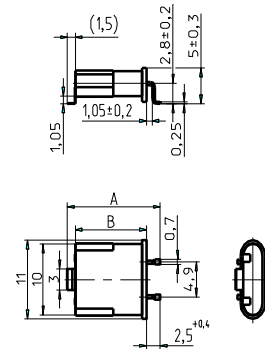
Drawings of packages of the crystal units



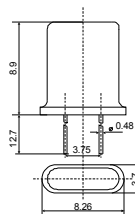
“HC-33”



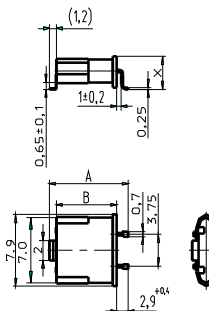
“HC-49”



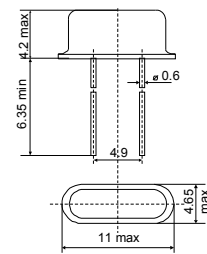
“HC-49-SMD”



“HC-52”



“HC-52-SMD”



“HC-49/S”