

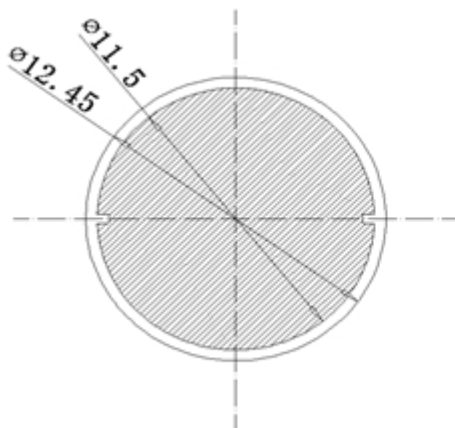
Specification	AXQCM401D	Rev.: 1	Date: 2020-10-04
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**Quartz Crystal Microbalance Element (Monitor Crystal)**

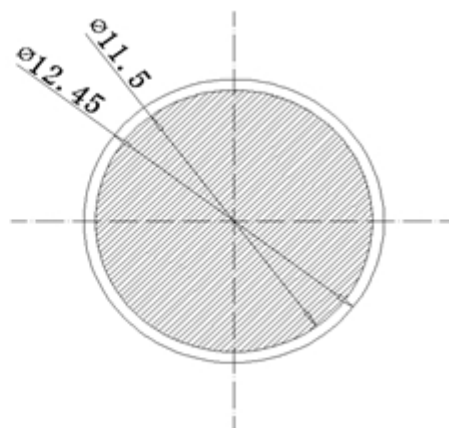


Parameter	min.	typ.	max.	Unit	Condition
Nominal frequency		4.000		MHz	
Adjustment frequency		3.995		MHz	
Crystal cut		AT			35°08'15"±1'
Overtone		1			
Frequency tolerance	-5		+5	kHz	
Frequency stability					
Over operating temperature range	-50		+50	ppm	
Resonance resistance R <sub>r</sub>			30	Ω	
Motional capacitance C <sub>1</sub>				fF	
Shunt capacitance C <sub>0</sub>			20	pF	
Drive level		100		μW	
Operating temperature range	+60	+70	+80	°C	
Storage temperature range	-40		+105	°C	
QCM diameter		12.45 +0/-0.03		mm	Plano-convex with bevel
Convex radius R		100		mm	
Blank surface quality		Fine lapped			R <sub>a</sub> = 0.05 ~ 0.2 μm
Electrode diameter Side A		11.5 ± 0.1		mm	Fully plated with gaps
Electrode material Side A		Cr-Au-Ti			
Electrode diameter Side B		11.5 ± 0.1		mm	Fully plated
Electrode material Side B		Cr-Au			

**Side A (Plane bevelled)**



**Side B (Convex)**



**Ordering Code:**

Model (Specification)	Revision	Frequency [MHz]
AXQCM401D	1	3.995

**Revision History**

Rev.	Drawing	Date [dd.mm.yyyy]	Remarks	Author	Checked
1	D0	04.10.2020	First issue AXQCM401D	BN	BN