

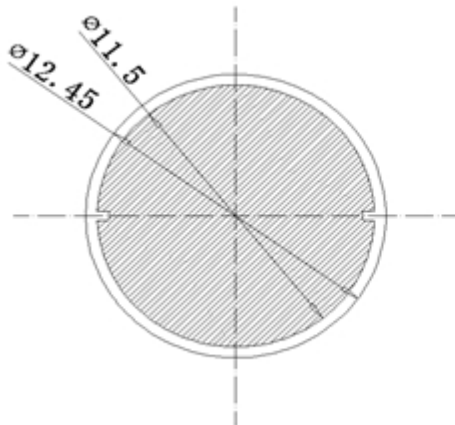
Specification	AXQCM401C	Rev.: 1	Date: 2020-10-04
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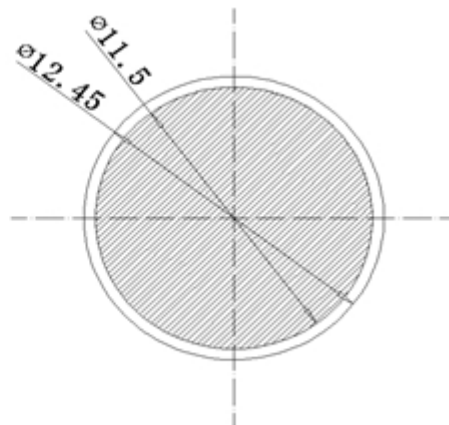
Quartz Crystal Microbalance Element (Monitor Crystal)

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 _r			30	Ω	
Motional capacitance C ₁				fF	
Shunt capacitance C ₀			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 _a = 0.05 ~ 0.2 μm
Electrode diameter Side A	11.5 ± 0.1			mm	Fully plated with gaps
Electrode material Side A	Cr-Au-Cr				
Electrode diameter Side B	11.5 ± 0.1			mm	Fully plated
Electrode material Side B	Cr-Au				

Side A (Plane)



Side B (Convex)



Ordering Code:

Model (Specification)	Revision	Frequency [MHz]
AXQCM401C	1	3.995

Revision History

Rev.	Drawing	Date [dd.mm.yyyy]	Remarks	Author	Checked
1	D0	04.10.2020	First issue AXQCM401C	BN	BN