

Specification	AXQCM611A & AXQCM611B	Rev.: 1	Date: 2020-10-04
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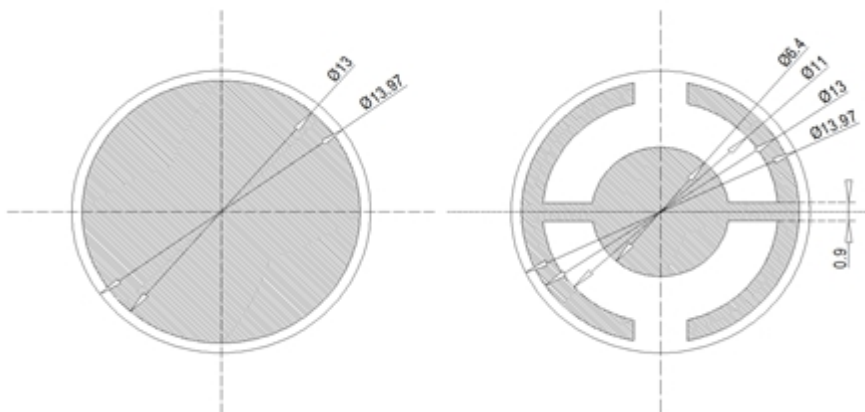
## Quartz Crystal Microbalance Element (Monitor Crystal)



Parameter	min.	typ.	max.	Unit	Condition
Nominal frequency		6.000		MHz	
Adjustment frequency		5.993		MHz	AXQCM611A
		5.989		MHz	AXQCM611B
Crystal cut	AT				
Overtone	1				
Frequency tolerance	-2		+2	kHz	
Frequency stability					
Over operating temperature range	-50		+50	ppm	
Resonance resistance $R_r$			15	$\Omega$	
Motional capacitance $C_1$				fF	
Shunt capacitance $C_0$			20	pF	
Drive level		100		$\mu$ W	
Operating temperature range	+60	+70	+80	$^{\circ}$ C	
Storage temperature range	-40		+105	$^{\circ}$ C	
QCM diameter	13.97+0/-0.03			mm	Plano-convex
Convex radius R	210			mm	
Blank surface quality	Fine lapped				$R_a = 0.8 \sim 1.6 \mu\text{m}$
Electrode diameter Side A	$13.0 \pm 0.1$			mm	Fully plated
Electrode material Side A	Ag-Al-Ti				
Electrode diameter Side B	$6.4 \pm 0.1$			mm	See drawing
Electrode material Side B	Ag-Al-Ti				

Side A (Plane)

Side B (Convex)



### Ordering Code:

Model (Specification)	Revision	Frequency [MHz]
AXQCM611A	1	5.993
AXQCM611B	1	5.989

**Revision History**

Rev.	Drawing	Date [dd.mm.yyyy]	Remarks	Author	Checked
1	D0	04.10.2020	First issue AXQCM611AB	BN	BN