AXTAL ADVANCED XTAL PRODUCTS

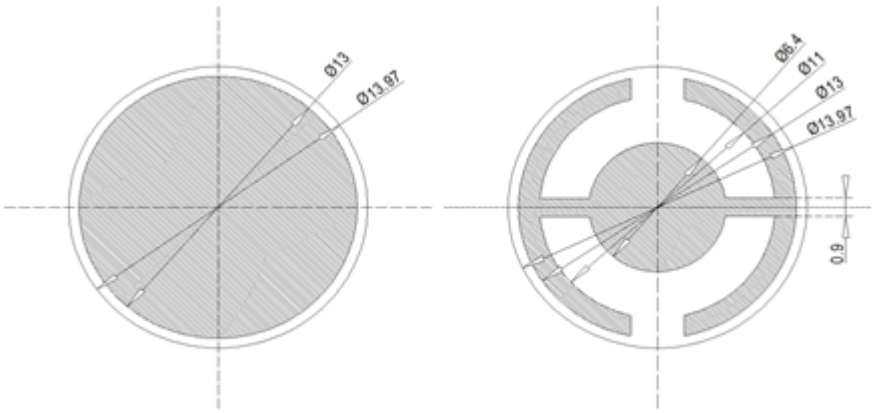
Specification	AXQCM601E, AXQCM601F	Rev.: 1	Date: 2020-10-04

Quartz Crystal Microbalance Element (Monitor Crystal)

A, B, C, D, E, F

Parameter	min.	typ.	max.	Unit	Condition
Nominal frequency		6.000		MHz	
Adjustment frequency		5.989 5.983		MHz MHz	AXQCM601E AXQCM601F
Crystal cut		AT			35°15'±1'
Overtone		1			
Frequency tolerance	-3 -7		+3 +7	kHz kHz	AXQCM601E AXQCM601F
Frequency stability					
Over operating temperature range	-50		+50	ppm	
Resonance resistance R_r			15	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		13.97 +0/-0.03		mm	Plano-convex
Convex radius R		210		mm	
Blank surface quality		Fine lapped			R_a = 0.8 ~ 1.6 µm
Electrode diameter Side A		13.0 ± 0.1		mm	Fully plated
Electrode material Side A		Cr-Au			
Electrode diameter Side B		6.4 ± 0.1		mm	See drawing
Electrode material Side B		Cr-Au			

Side A (Plane) **Side B (Convex)**



Ordering Code:

Model (Specification)	Revision	Frequency [MHz]
AXQCM601E	1	5.989
AXQCM601F	1	5.983

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Revision History

Rev.	Drawing	Date [dd.mm.yyyy]	Remarks	Author	Checked
1	D0	04.10.2020	First issue AXQCM601E,F	BN	BN