

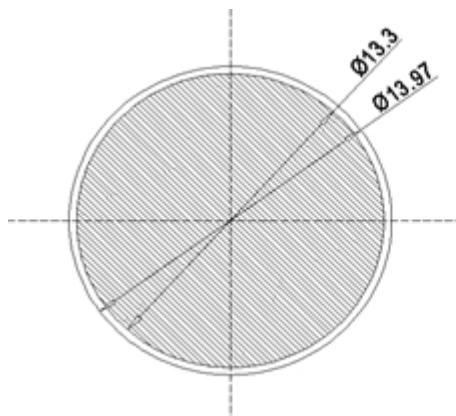
Specification	AXQCM502B~D	Rev.: 1	Date: 2020-09-27
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Quartz Crystal Microbalance Element (Monitor Crystal)

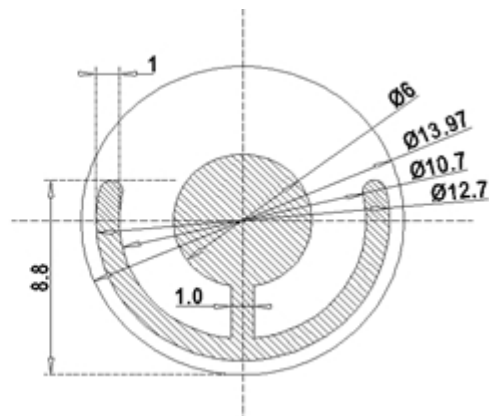


Parameter	min.	typ.	max.	Unit	Condition
Nominal frequency		5.000		MHz	
Adjustment frequency		4.967		MHz	AXQCM502B
		4.960		MHz	AXQCM502C
		5.005		MHz	AXQCM502D
Crystal cut		AT			35°15'±1'
Overtone		1			
Frequency tolerance	-7		+7	kHz	AXQCM502B
	-7		+7	kHz	AXQCM502C
	-5		+5	kHz	AXQCM502D
Frequency stability					
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		13.3 ± 0.1		mm	Fully plated
Electrode material Side A		Cr-Au			
Electrode diameter Side B		6.0		mm	See drawing
Electrode material Side B		Cr-Au			

Side A (Plane)



Side B (Convex)



Ordering Code:

Model (Specification)	Revision	Frequency [MHz]
AXQCM502B	1	4.967
AXQCM502C	1	4.960
AXQCM502D	1	5.005

Revision History

Rev.	Drawing	Date [dd.mm.yyyy]	Remarks	Author	Checked
1	D0	27.09.2020	First issue AXQCM502B~D	BN	BN