

Quartz Crystal Monitor (QCM)

Typical application

Measuring the thickness of spray thin films (vacuum evaporation and sputtering),
speed of growth of thin films. Sensors Surface weight change - a highly sensitive microbalance.



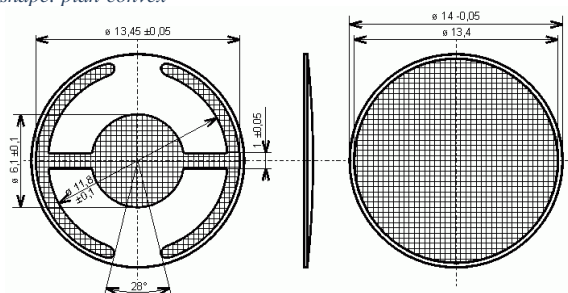
Typical specifications

Type	Quartz Crystal Monitor		
Frequency Range	4990 kHz \pm 20 kHz	5970 kHz \pm 20 kHz	10000 kHz \pm 20 kHz
Operating Temp. Range	+15 ... +55 °C	+20 ... +125 °C	+15 ... +30 °C
Freq. Stability vs. Temp.	$\pm 5 \times 10^{-6}$	$\pm 40 \times 10^{-6}$	$\pm 5 \times 10^{-6}$
Resistance	20 Ω max.	20 Ω max.	30 Ω max.
Metallisation	Cr+Au, Cr+Ag, Au, Ag Model 1 or 2		Cr+Au, Cr+Ag, Au, Ag Model 3
Drive level	100 μ W max.		

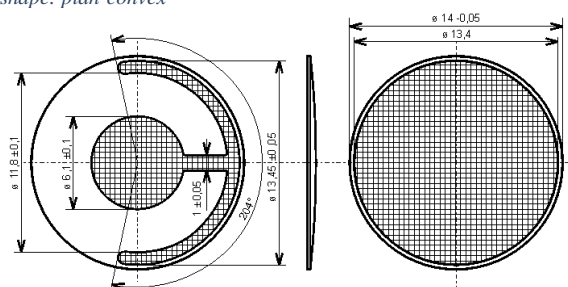
Differences from standard values (i.e. frequency, dimensions, metallisation and electrode shape) can be consulted.

Outline dimensions [mm]

- Model 1 - shape: plan-convex



- Model 2 - shape: plan-convex



- Model 3 - shape: plan-plan

