

## AW-R50AU01H 50 MHz Cr Au Wrapped Sensor

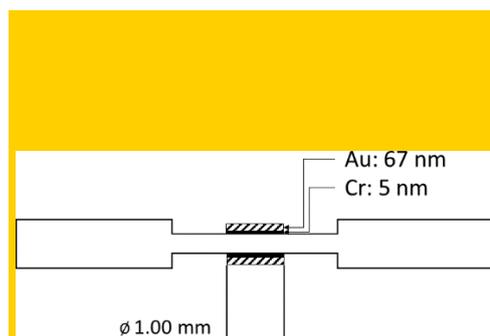
- 50 MHz - High Fundamental Frequency QCM sensor
- 1 mm dia Chromium / Gold electrodes
- Exclusive use with BluQCM Cells



General	
Sensor design	Double-sided Inverted Mesa
Cut	AT
Frequency vs Temperature stability	$< \pm 5$ ppm ( $-40$ to $+85^{\circ}\text{C}$ )

Electrical	
Nominal frequency	50.000 MHz
Center frequency	49.975 MHz
Frequency tolerance	$\pm 125$ kHz
Q-value (in air)	$> 25000$

Mechanical & Electrodes	
Support	PPS
Surface finish	Polished (optically clear $< 1 \mu\text{m}$ )
Electrode diameter	1.00 mm
Electrodes material	Cr/Au, Chromium / Gold
One sided contacting	Yes
Coating thickness	5 nm Cr / 67 nm Au
Electroactive area	$1.277 \text{ mm}^2$
Sensitive area	$0.785 \text{ mm}^2$



Front view of sensor  
in PPS support



### Packaging, storage and maintenance (guidance)

Sensor package type	Plastic box depository with foam filling for appropriate protection.
Storage quantity	5 covered, shock protected storage slots.
Package protection	Package is protected with a vacuum sealed plastic bag for prolonged storage and shipping.
Storage recommendation	After opening plastic vacuum bag, preferably store in dust free dry Air or Nitrogen at room temperature.
Cleaning	Electrode surface is free of particles and contaminants. However, appropriate cleaning is recommended before use. The cleaning protocol depends on application. For general purpose, SDS 2% followed by UV/ozone exposure for 30 min is effective to remove most surface contaminants. <b>Minimize the exposure of the bottom side of the sensor to the cleaning solvents.</b>
Precautions	Do not touch, direct or indirectly, the electrodes to prevent scratches. Hold the sensor only from the outer edge of the PPS support.