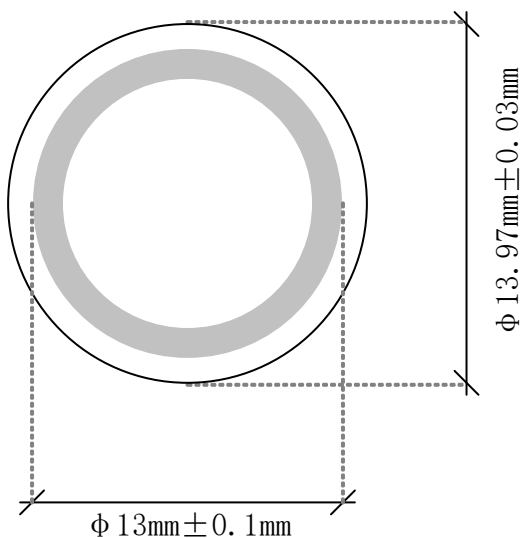


|               |             |         |                  |
|---------------|-------------|---------|------------------|
| Specification | AXQCM595-Au | Rev.: 1 | Date: 2020-01-08 |
|---------------|-------------|---------|------------------|

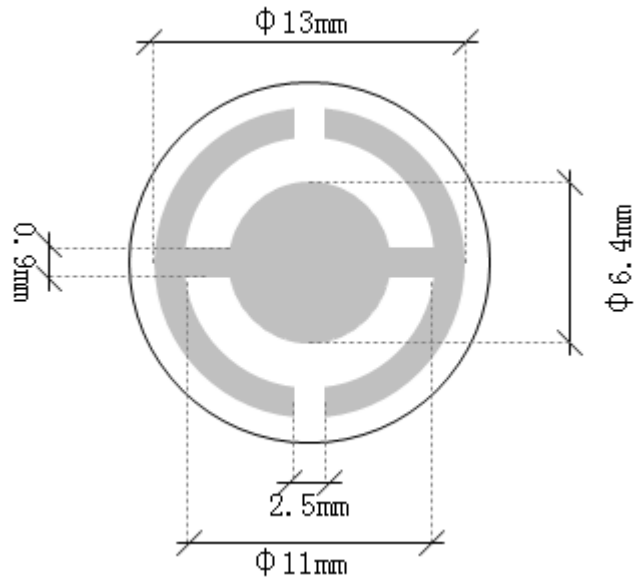
Type : **Quartz Crystal Microbalance Element (Monitor Crystal)**  
Electrodes Maxtek Style

| Parameter                        | min. | typ.             | max. | Unit     | Condition    |
|----------------------------------|------|------------------|------|----------|--------------|
| Nominal frequency                |      | 6.000            |      | MHz      |              |
| Adjustment frequency             |      | 5.950            |      | MHz      |              |
| Crystal cut                      |      | AT               |      |          |              |
| Overtone                         |      | 1                |      |          |              |
| Frequency tolerance              | -30  |                  | +30  | kHz      | @ 25°C       |
| Frequency stability              |      |                  |      |          |              |
| Over operating temperature range | -50  |                  | +50  | ppm      |              |
| Resonance resistance $R_r$       |      |                  | 15   | $\Omega$ |              |
| Motional capacitance $C_1$       |      |                  |      | fF       |              |
| Shunt capacitance $C_0$          |      |                  | 7    | pF       |              |
| Drive level                      |      | 100              |      | $\mu$ W  |              |
| Operating temperature range      | +59  | +70              | +81  | °C       |              |
| Storage temperature range        | -40  |                  | +105 | °C       |              |
| QCM diameter                     |      | 13.97 $\pm$ 0.03 |      | mm       |              |
| Blank surface quality            |      | Fine lapped      |      |          |              |
| Electrode diameter Side A        |      | 13.0 $\pm$ 0.1   |      | mm       | Fully plated |
| Electrode material Side A        |      | Cr-Au            |      |          |              |
| Electrode diameter Side B        |      | 6.4              |      | mm       | See drawing  |
| Electrode material Side B        |      | Cr-Au            |      |          |              |

Side A (Plane)



Side B (Convex)



## Ordering Code:

| Model (Specification) | Revision | Frequency [MHz] |
|-----------------------|----------|-----------------|
| AXQCM595-Au           | 1        | 5.950           |

## Revision History

| Rev. | Drawing | Date<br>[dd.mm.yyyy] | Remarks                 | Author | Checked |
|------|---------|----------------------|-------------------------|--------|---------|
| 1    | D0      | 08.01.2020           | First issue AXQCM595-Au | BN     | BN      |