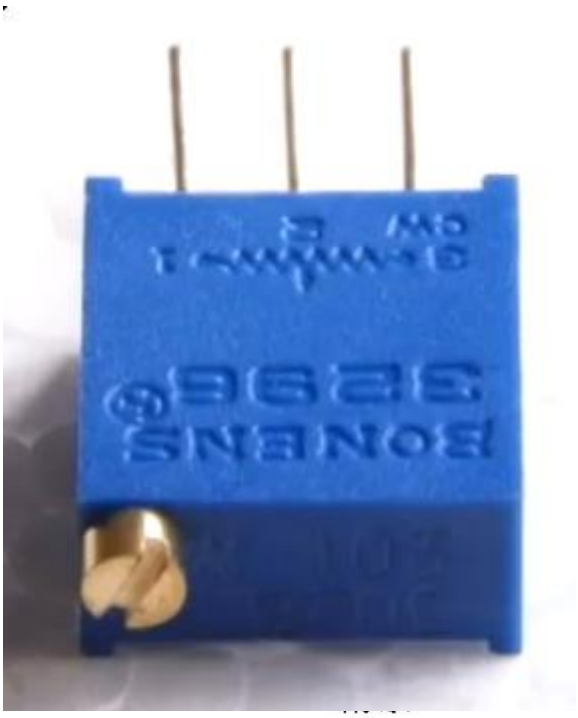
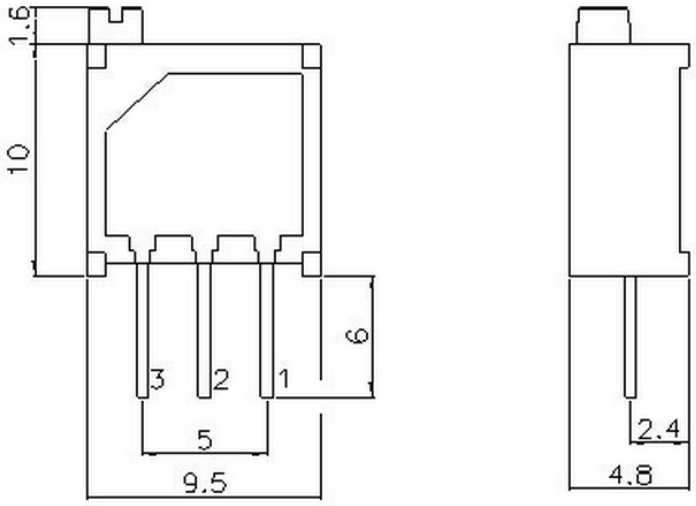
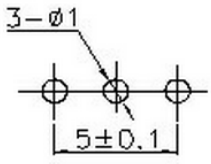
Customer	
Product Name	**Model**
3296 CERMET-CERAMIC TRIMMER POTENTIOMETER	**3296W**



3296W



安装尺寸



■Features：

- Higher rated power ,Thanks to the use of Glass glaze resistance body
- Cut-off structure ,offers excellent overall characteristics
- Worm drive ,mite adjust
- Excellent reliability for heat and humidity

■ Applications：

- Various type instruments、appliances and power production

1.0 The outline and sizes is showed in fig

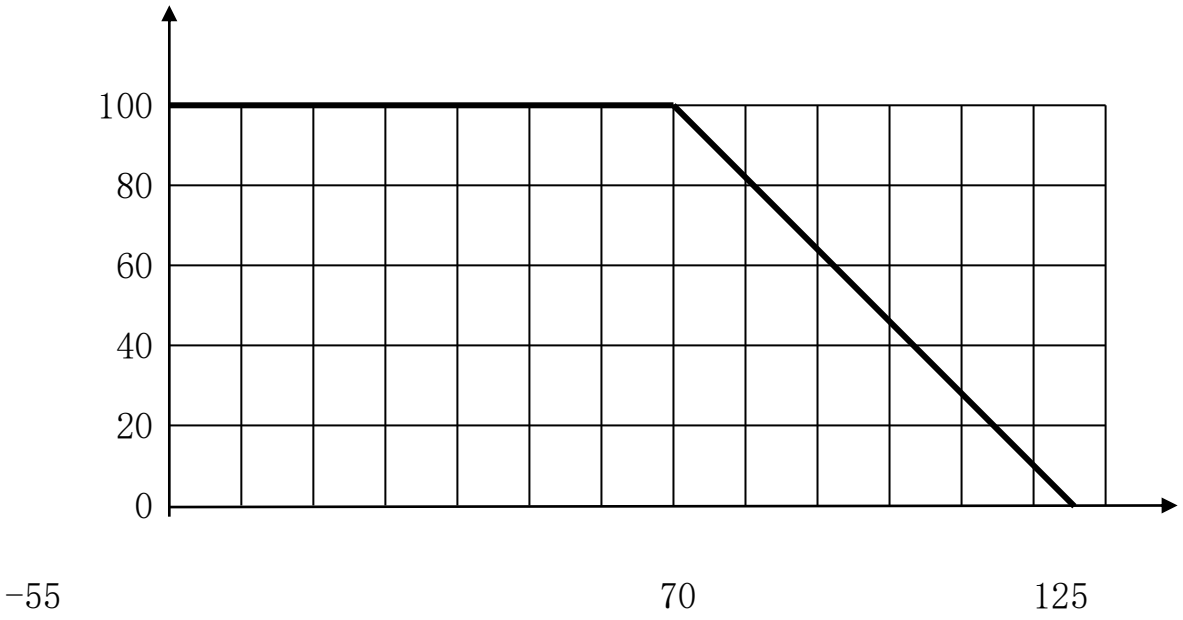
2.0 Electrical performance

2.1 Range of normal resistance	10Ω～5MΩ
2.2 Resistance tolerance	±10 %
2.3 Resistance taper	B
2.4 Rated power（70℃）	0.5W
2.5 Contact resistance	≤1%R or 3Ω
2.6 temperature range：	-55℃～+125℃
2.7 Terminal resistance	≤1%R or 2Ω
2.8 Withstand voltage	640V (DC or AC Peak value)
2.9 Mechanical endurance	200 cycles

3.0 Mechanical performance

3.1 Total mechanical	(28±2) cycle
3.2 Starting torque	≤3 5mN.m

4.0 Curve of power



5.0 Environmental **performance**

5.1 Resistance temperature characteristics

First, the specimen shall be allowed to stand in a test chamber of 55℃±2℃ and relative humidity not more them ±20% for（24±4）hours without load .Then the specimen shall be made cool in desiccator with suitable drier and keep it to regulation test.

temperature coefficient≤±250×10^{-6}/℃

5.2 Climate category

5.2.1 Dry

The specimen shall be allowed to stand in a test chamber of 70℃ for 16 hours .It’s exterior shall not be clear damage and mark shall be clear.

5.2.2 Circle damp and hot test Db first circle

Rise to 55℃ from room temperature by degrees, and keep it for a lot of time ,then drop to room temperature. This process shall be kept it for 24 hours.

5.2.3 Cold

The specimen shall be allowed to stand in a test chamber of -25℃ for 2 hours. Starting torque shall be ≤40mN.m.

5.2.4 Circle damp and hot test Db surplus circle

Rise to 55℃ from room temperature by degrees, and keep it for a lot of time ,then drop to room temperature. This process shall be kept it for 24 hours.

5.2.5 Insulation voltage

Meet to GB/T15298-94.The voltage of test is 300V (DC or AC peak Value). Its exterior shall not be clear damage and mark shall be clear. The following requirement shall be met after the test is completed:

Variation resistance: less than ± (5%R+0.1Ω)

Insulation resistance: more than 100MΩ

Starting torque: ≤40mN.m

5.3 Resistance to soldering heat

First, the specimen shall be allowed to stand a test chamber Of 55℃±2℃ and relative humidity not more than 20% for (24 ±4) hours without load .Then the specimen shall be allowed to stand in a tin cauldron of 350℃±10 ℃ for 3.5±0.5 s .Variation resistance shall be measured after the test is completed.

Variation resistance: less than ±(3%R+0.1Ω);

Terminal resistance: R_{12} R_{23}≤10Ω or1%R

5.4 Vibration

The specimen shall be vibrated for two hours on X and Y and Z .Frequency range is （10～500）Hz .Amplitude is 0.75mm.Variation resistance shall be met the following requirement and the specimen

shall not have more than 100μs electrical interruption:

Variation resistance: less than ±(1%R+0.1Ω)

5.5 Electrical endurance at 70℃

Rated voltage shall be applied in a test chamber of (70℃ ±3℃) for one hour and 30 minutes and then shall be cut off for 30 minutes. After repeating this cycle for 1000 hours, the total resistance shall be measured at 48 hours、500 hours and 1000 hours .The following requirement shall be met after the test is completed .

Variation resistance: less than ±(3%R+0.5Ω)

Insulation resistance: more than 100MΩ

5.6 Mechanical endurance

The shaft shall be turned at a speed of 5～10 cycles Per minute over 90% of the effective rotational angle (total Travel).The following requirement shall be met after 200 Cycle:

Variation resistance: less than ±(10%R+0.5Ω)

Starting torque: ≤40mN.m

5.7 Steady damp heat

Meet to GB/T15298-94.The following requirement shall be met after the test is completed, The specimen exterior has not clear damage and it’s mark shall be clear, variation resistance is less than ±(5%R+0.1Ω),insulation resistance is more than 100MΩ.