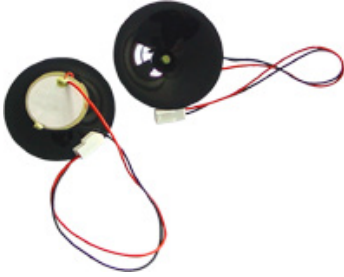


**Description**

Challenge Piezo disc with Diaphragm 48.5(<49)mm diameter; type A (=11mm height max.) 10Vp-p – 2.5KHz resonant frequency –Connector 25#, Wire length 180mm RoHS compliant

- ◆ Reliable Solid State Piezoelectric Technology
- ◆ High Sound Output
- ◆ Light
- ◆ Easily Mounted with Connector

**Picture**



**Specification**

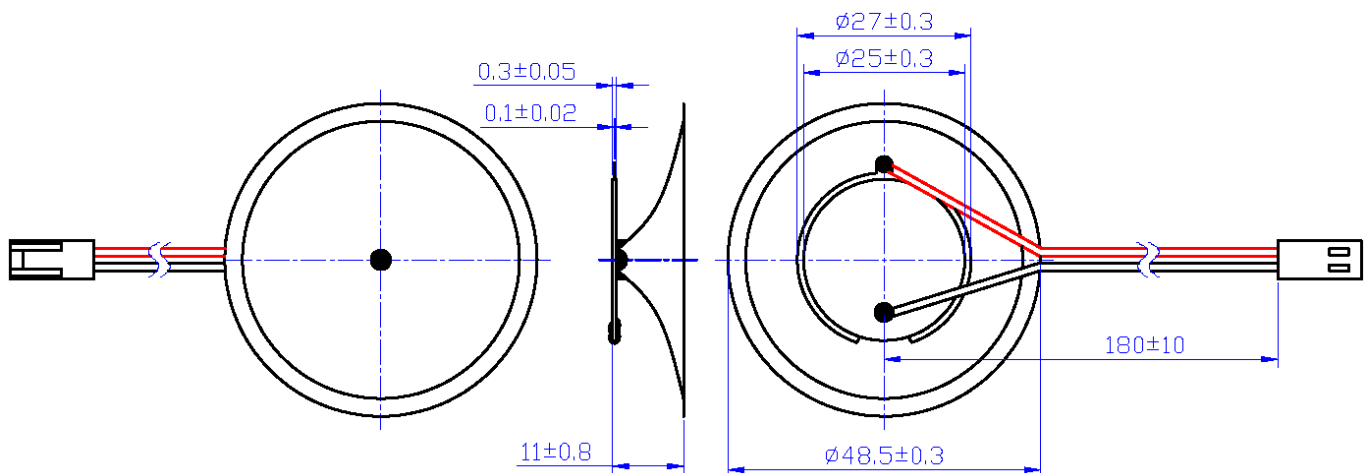
<p>Resonant Frequency Resonant Impedance Capacitance at 100Hz Input Voltage Insulated Resistance Operating Temperature Storage Temperature Termination Construction Materials</p>	<p>Description Case Diaphragm</p>	<p>2,500+/-500Hz 100 Max. ohm 140,000+/-30% pF at 100Hz 25 °C 30Vp-p Max., square wave 50M ohm Min. -20 °C to +60 °C -30 °C to +70 °C Connector No Mylar cone, black color 2.8 g no function at +70+/-2 °C for 240 hours, function at +60+/-2 °C for 240 hours, no function at -30+/-2 °C for 240 hours, function at -20+/-2 °C for 240 hours, +40+/-2 °C, 95+/-5%RH, 240 hours -20+/-2 °C 0.5 hr → +25+/-2 °C 0.25 hr → +60+/-2 °C 0.5 hr → +25+/-2 °C 0.25 hr. Temperature Go up or Drop time is 0.5 hr. 3 hrs per 1 cycle. Total is 5 cycles 1.5mm with 10 to 50Hz of vibration frequency to each of 3 perpendicular directions for 2 hours 980m/s<sup>2</sup> (=100g) shock for each mutually perpendicular directions, half sine wave, 3 times each Dropped naturally from 750mm height onto the surface of 10mm wooden board. 2 directions – upper and side of the part are applied For a period of one (1) year from date of manufacture under normal operations</p>
<p>Weight (Typical) Reliability</p>	<p>*High Temperature *Low Temperature *Humidity *Thermal Shock *Vibration *Shock *Drop Test</p>	<p>no function at +70+/-2 °C for 240 hours, function at +60+/-2 °C for 240 hours, no function at -30+/-2 °C for 240 hours, function at -20+/-2 °C for 240 hours, +40+/-2 °C, 95+/-5%RH, 240 hours -20+/-2 °C 0.5 hr → +25+/-2 °C 0.25 hr → +60+/-2 °C 0.5 hr → +25+/-2 °C 0.25 hr. Temperature Go up or Drop time is 0.5 hr. 3 hrs per 1 cycle. Total is 5 cycles 1.5mm with 10 to 50Hz of vibration frequency to each of 3 perpendicular directions for 2 hours 980m/s<sup>2</sup> (=100g) shock for each mutually perpendicular directions, half sine wave, 3 times each Dropped naturally from 750mm height onto the surface of 10mm wooden board. 2 directions – upper and side of the part are applied For a period of one (1) year from date of manufacture under normal operations</p>

**Warranty**

\* All specifications must be satisfied after the test (Recovery:2 to 4 hrs of recovery under the standard condition after the removal from test chamber).

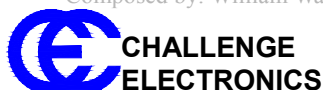
\*\*90% min. soldering pads shall be with solder.(except the edge of pad)

**Dimensions** (Unit:mm)



All specifications are subject to change without notice

Composed by: William Wang/130513 Checked by: Gong Sam/130513 Approved by: Jack Guo/130513

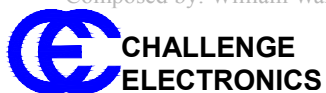


95 E. Jeffryn Boulevard  
Deer Park, New York 11729  
Tel (631) 595-2217 Tel (800) 722-8197  
Fax (631) 586-5899

**Revisions History**

Version Number	Description	Name	Date
090429	Original CPD49A10-2.5-C25W180R	Jack Guo	2009-04-29
SP1.12.003-A1	Update the description of version	William Wang	2013-05-13

Composed by: William Wang/130513    Checked by: Gong Sam/130513    Approved by: Jack Guo/130513



95 E. Jeffryn Boulevard  
Deer Park, New York 11729  
Tel (631) 595-2217    Tel (800) 722-8197  
Fax (631) 586-5899