Description

CPD48A10-2.3-W50R:
Challenge Piezo element with Diaphragm 47.6(<48)mm diameter, type A (=9mm height) – 2.3KHz resonant frequency – braided Wire length 50mm, RoHS compliant

RoHS compliant
 Reliable Solid State Piezoelectric Technology
 High Sound Output
 Key Part of High Sound Output Piezo Sounder

Picture

Specification

Resonant Frequency 2.300+/-500Hz
Resonant Impedance 100 Max. ohm
Capacitance at 100Hz 240,000+/-50% pF at 100Hz 25°C
Input Voltage 30Vp-p Max., square wave
Insulated Resistance 50M ohm Min.
Operating Temperature -20°C to +70°C
Storage Temperature -30°C to +80°C

Termination Description
Construction Materials
Case No
Diaphragm PEI

Weight (Typical) 3.2 g
Reliability
*High Temperature no function at +80+/-2°C for 240 hours, function at +70+/-2°C for 240 hours,
*Low Temperature no function at -30+/-2°C for 240 hours, function at -20+/-2°C for 240 hours,
*Humidity +45%+/-5%RH, 240 hours
*Thermal Shock -20+/-2°C 0.5 hr → +25+/-2°C 0.25 hr → +70+/-2°C 0.5 hr → +25+/-2°C 0.25 hr.
Temperature Go up or Drop time is 0.5 hr. 1 cycle. Total is 5 cycles
*Vibration 1.5mm with 10 to 50Hz of vibration frequency to each of 3 perpendicular directions for 2 hours
*Shock 980m/s² (=100g) shock for each mutually perpendicular directions, half sine wave, 3 times each
*Drop Test Dropped naturally from 750mm height onto the surface of 10mm wooden board. 2 directions – upper and side of the part are applied
*Soldering Heat Resistance Soldering Temperature: 260°C for 3 seconds

Warranty
For a period of one (1) year from date of manufacture under normal operations

*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).

Dimensions (Unit:mm, Tolerance: +/-0.3mm)

All specifications are subject to change without notice