Panasonic

Radial lead Type

Series: HW

Features

- Can be discharged mA or more current.
- RoHS directive compliant



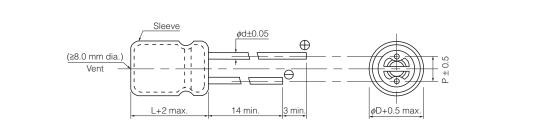
Recommended Applications

- Solar battery operated circuits (Road guidance flasher), Quick charging motor drives (Toy car)
- Back-up Power Supplies (UPS)

Specifications

| 1 | | | | | | | |
|---------------------------------------|----------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------|------------------|----------|--|--|--|
| Category Temp. Range | -25 °C to +70 °C | | –25 °C to +60 °C | | | | |
| Maximum Operating Voltage | 2.3 V.DC | | 2.3 V.DC | 2.1 V.DC | | | |
| Nominal Cap. Range | 1 F to 22 F | | 30, 50 F | 70 F | | | |
| Capacitance Tolerance | -20 % to +40 % (1F : +80 %) | | | | | | |
| Characteristics at Low Temperature | Capacitance change | ±30 % of initial measured value at +20 °C (at -25 °C) | | | | | |
| | Internal resistance | e ≤4 times of initial measured value at +20 °C (at -25 °C) | | | | | |
| Endurance | After 1000 hours application of 2.3 V. DC at +70 $^{\circ}$ C (+60 $^{\circ}$ C), the capacitor shall meet the following limits. | | | | | | |
| | Capacitance change | ±30 % of initial measured value | | | | | |
| | Internal resistance | ≤2 time of initial specified value | | | | | |
| Shelf Life | After 1000 hours storage at $+70$ °C ($+60$ °C) without load, the capacitor shall meet the specified limits for Endurance. | | | | | | |

Dimensions in mm(not to scale)



Standard Products

| Category temp. range | Max. Operating Voltage | Capacitance | Internal resistance (Initial specified value) | | Size | (mm) | | Part number | Min. Packaging Q'ty |
|----------------------------|------------------------------|-------------|-----------------------------------------------------|------|------|------------|-----|-------------|---------------------------|
| (°C) | (V.DC) | (F) | (Ω) at 1 kHz | φD | L | <i>ø</i> d | Р | | (pcs) |
| -25 to +70 | 2.3 | 1.0 | ≦ 1.0 | 8.0 | 22.0 | 0.7 | 3.5 | EECHW0D105 | 200 |
| | | 3.3 | ≦ 0.3 | 12.5 | 23.0 | 0.8 | 5.0 | EECHW0D335 | 200 |
| | | 4.7 | ≦ 0.3 | 12.5 | 23.0 | 0.8 | 5.0 | EECHW0D475 | 200 |
| | | 10 | ≦ 0.2 | 12.5 | 35.0 | 0.8 | 5.0 | EECHW0D106 | 100 |
| | | 22 | ≦ 0.1 | 18.0 | 35.0 | 0.8 | 7.5 | EECHW0D226 | 50 |
| -25 to +60 | | 30 | ≦ 0.1 | 18.0 | 35.0 | 0.8 | 7.5 | EECHW0D306 | 50 |
| | | 50 | ≦ 0.1 | 18.0 | 40.0 | 0.8 | 7.5 | EECHW0D506 | 50 |
| | 2.1 | 70 | ≦ 0.1 | 18.0 | 50.0 | 0.8 | 7.5 | EECHW0D706 | 50 |

Note : 1. Do not use reflow soldering. (IR, Atmosphere heating methods, etc.) Please refer to EE208 "Mounting Specifications".

Design and specifications are each subject to change without notice. Ask factory for the current technical specifications before purchase and/or use. Should a safety concern arise regarding this product, please be sure to contact us immediately.

(Unit : mm)