## Radial lead Type

Series: **HW** 

### ■ Features

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

# ■ Recommended Applications

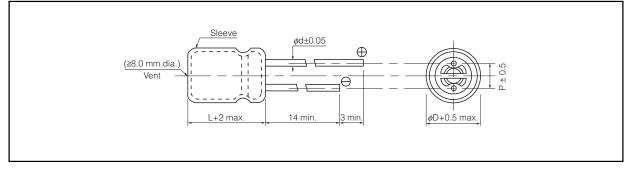
- Solar battery operated circuits (Road guidance flasher), Quick charging motor drives (Toy car)
- Back-up Power Supplies (UPS)



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 ≤4 times of initial measured value at +20 °C (at -25 °C)						
Endurance	After 1000 hours application of 2.3 V. DC at +70 °C (+60 °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)

(Unit: mm)



#### ■ 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>φ</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.