

Radial lead Type

Series: HW

Country of Origin
Japan

■ Feature

- Miniaturized, high-capacitance, low-resistance.
- Can be charged and discharged with more cycles compared to secondary batteries.
- Pollution free: Has activated carbon and organic electrolyte.
- Does not contain polyvinyl chloride and lead.
- RoHS directive compliant



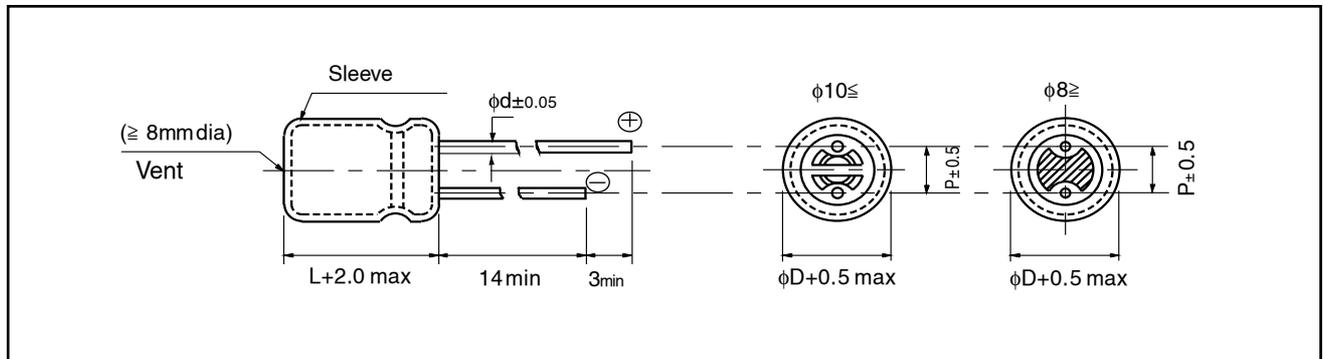
■ Recommended Applications

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

■ Specifications

Category temp. range	-25 to +70°C	-25 to +60°C	
Maximum Operating Voltage	2.3 V .DC	2.3 V .DC	2.1 V .DC
Nominal Cap. Range	1 to 22 F	30, 50 F	70F
Capacitance Tolerance	-20 to +40%		
Characteristics at Low Temperature	Capacitance change	±30% of initial measured value at +20°C (-25 to +70°C, +60°C)	
	Internal resistance	≤ 4 times of initial measured value at +20°C (at -25°C)	
Endurance	After 1000 hours application of 2.3V. 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.		
Moisture Resistance	After 500 hours storage at +55°C, 90 to 95% R.H., the capacitor shall meet the specified limits for Endurance.		

■ Dimensions in mm (not to scale)



■ Standard Products

Category temp. range (°C)	Max. Operating Voltage (V.DC)	Capacitance (F)	Internal resistance (Ω) at 1kHz	Size(mm)				Part number	Min. Packaging Q'ty (pcs)
				φD	L	φd	P		
-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	2.1	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
		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.)

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