

Radial lead Type

Series: HW

Feature

Miniaturized, high-capacitance, low-resistance.

Can be charged and discharged with more cycles compared to secondary batteries

to secondary batteries.
Pollution free: Has activated carbon and organic electrolyte.

Does not contain polyvinyl chloride and lead.

RoHS directive compliant

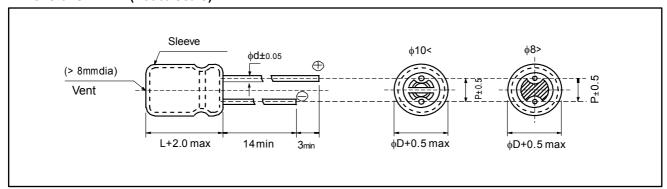
Recommended Applications

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



Opecifications								
Category temp. range	-25 to +70°C		-25 to +60°C					
Maximum Operating Voltage	2.3 V .DC		2.3 V .DC	2.1V .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	apacitance 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

Catagory tomp	Max. Operating	0	Internal						Min Dealeraine
Category temp. range (°C)	Voltage (V.DC)	Capacitance (F)	resistance (&) at 1kHz	Size(mm)				Part number	Min. Packaging Q'ty
)D	L)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	8.0	5.0	EECHW0D335	200
		4.7	< 0.3	12.5	23.0	8.0	5.0	EECHW0D475	200
		10	< 0.2	12.5	35.0	8.0	5.0	EECHW0D106	100
		22	< 0.1	18.0	35.0	8.0	7.5	EECHW0D226	50
-25 to +60		30	< 0.1	18.0	35.0	8.0	7.5	EECHW0D306	50
		50	< 0.1	18.0	40.0	8.0	7.5	EECHW0D506	50
	2.1	70	< 0.1	18.0	50.0	8.0	7.5	EECHW0D706	50

Note:1. Do not use reflow soldering. (IR, Atmosphere heating methods, etc.).