

# Metalized Polypropylene

## Film Capacitor

## EPC series

## Capacitor for Electric Equipment



### Features

- Space-saving
- Film capacitor with fuse function
- In case of breakdown by loading an extreme overvoltage or heat, etc, the Capacitor is totally departed from the circuit.
- Comply with JIS C 4908(Capacitor for electric equipment)
- Dielectric substance is adopted low-loss metalized polypropylene
- flame-resistant casing



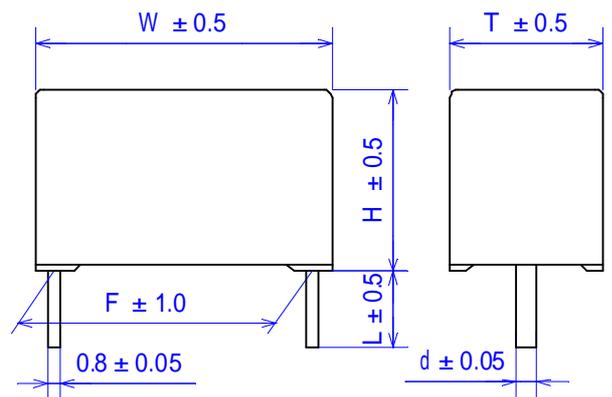
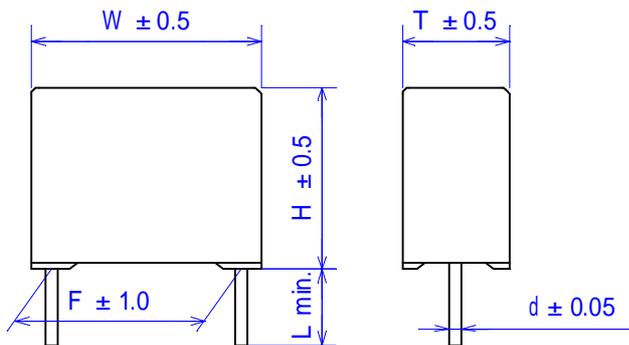
### Applications

for waveform shaping circuit of Photovoltaic inverter, storage battery, UPS etc.

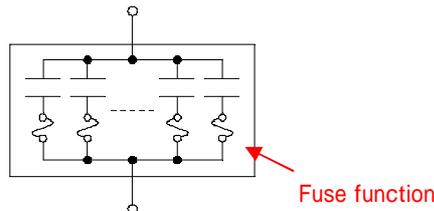
### Dimensions

Terminal shape: A (Wire)

Terminal shape: B (Flatten)



### Circuit diagram



### Model Numbering System



Series Name      Capacitance      Tolerance of capacitance

Rated Voltage	Model Number	Capacitance $\mu\text{F} \pm 5\%$	Dimensions (mm)							dielectric dissipation factor	Test voltage	Insulation resistance
			W	H	T	F	d	L	shape			
310Va.c.	EPC105J	1.0	30.0	22.0	11.0	27.5	1.0	15	A	0.003max. (at 1kHz)	line to line 545Va.c. 50/60Hz 60sec.	line to line 7500 F min (100Vd.c.)
	EPC155J	1.5	30.0	22.0	11.0	27.5	1.0	15	A			
	EPC225J	2.2	30.0	22.0	11.0	27.5	1.0	15	A			
	EPC335J	3.3	30.0	24.5	13.5	27.5	1.0	15	A			
	EPC475J	4.7	31.0	26.0	18.0	27.5	1.0	15	A			
	EPC685J	6.8	36.0	29.0	17.0	32.5	1.0	15	A		Line to Case 1620Va.c. 50/60Hz 60sec.	Line to Case 30000M min (500Vd.c.)
	EPC106J	10.0	36.0	34.0	21.5	32.5	1.0	15	A			
	EPC156J	15.0	60.5	33.0	20.0	55.0	2*0.8	9	B			
	EPC226J	22.0	60.5	36.5	22.5	55.0	2*0.8	9	B			
	EPC336J	33.0	60.5	41.5	28.0	55.0	2*0.8	9	B			
EPC476J	47.0	60.5	49.0	33.0	55.0	3*0.8	9	B				

Operation temperature: -25 ~ 85 (Please make inquiries on other capacitance etc)

## EPC series; Capacitor for waveform shaping circuit

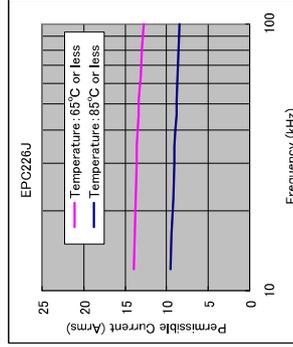
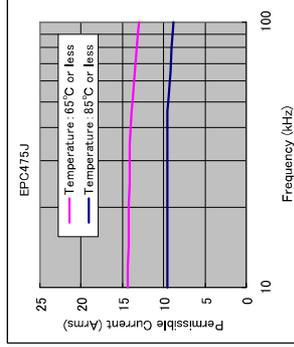
- Feature: ①Space-saving ②High permissible current
- ③higher reliability by adopting deposited film including fuse function
- ④Complied with JIS C 4908(Capacitor for electric equipment)
- Specification: ①Rated Voltage : 310Vac. ②Capacitance : 1  $\mu$ F ~ 47  $\mu$ F (E6 series)
- ③Operation temperature : -40°C ~ 85°C ※Please make inquiries on other capacitance.
- Application: for waveform shaping circuit of Photovoltaic inverter, storage battery, UPS etc.

— PWM ⇒ sinusoidal wave—

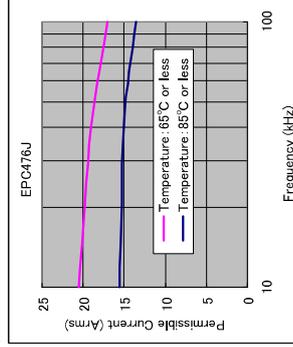
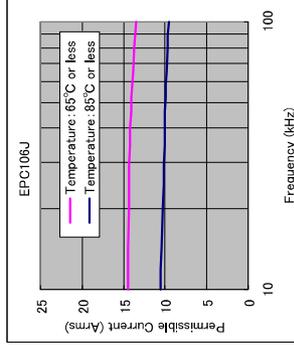
### ● Appearance

Capacitance	6.8 $\mu$ F	10 $\mu$ F	15 $\mu$ F	47 $\mu$ F	
Appearance					
terminal shape	Lead wire	Lead wire	Flatten Lead	Flatten Lead	

### ● permissible current (central value)

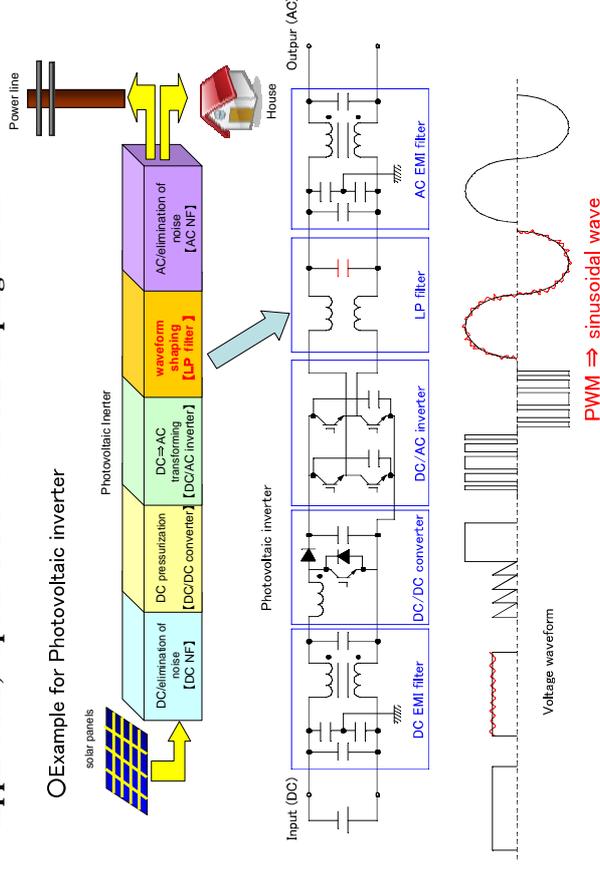


### To achieve high permissible current



## Application; capacitor for waveform shaping circuit

### ○ Example for Photovoltaic inverter



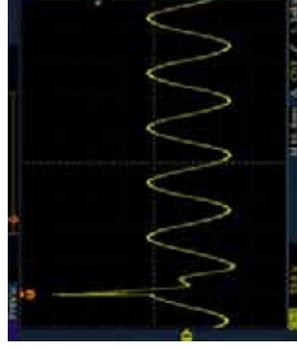
### ● Reliability Test (Reference)

#### 【Description of test】

- Complied with JIS C 4908 : 10.13 (Reliability test for Capacitor including fuse function)
  - Superimposed voltage : 403Vac (Rated voltage : 310Vac X 1.3) / 60Hz
  - Charge and discharge voltage : 2170V / 15sec(interval)
  - Repeat to charge and discharge until current value come to zero approximately
- #### 【 Judgment condition 】

- Confirm with no flare and no combustion object flown from capacitor during test.

Appearance : **No damage**



By adopted deposited film including fuse function, preserve high reliable productivity.