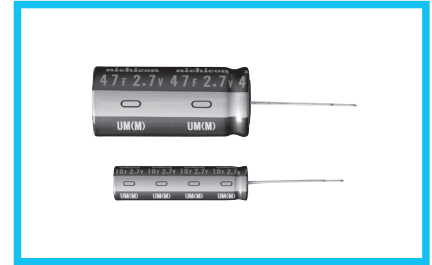
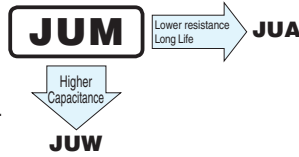


**JUM**

Radial Lead Type, Standard

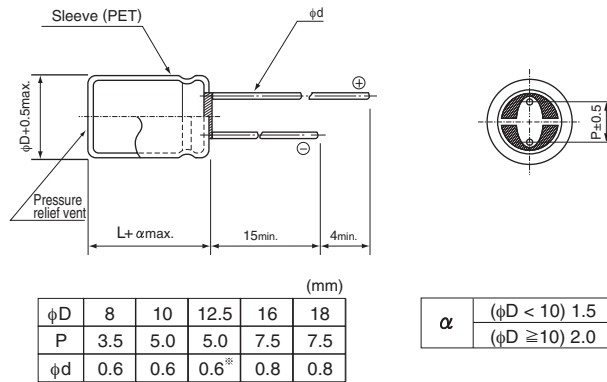
- Standard type (2.7V).
- Suitable for quick charge and discharge.
- Wide temperature range (– 25 to +70°C).
- Compliant to the RoHS directive (2011/65/EU,(EU)2015/863).



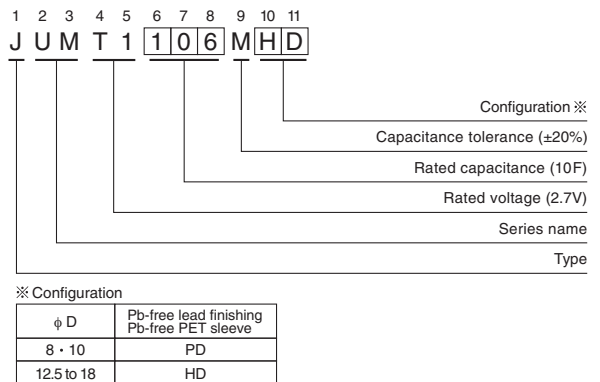
## Specifications

Item	Performance Characteristics		
Category Temperature Range	− 25 to +70°C		
Rated Voltage Range	2.7V		
Rated Capacitance Range	1 to 47F See Note		
Capacitance Tolerance	±20% , 20°C		
Stability at Low Temperature	Capacitance (− 25°C) / Capacitance (+20°C) ×100 ≥ 70% ESR (− 25°C) / ESR (+20°C) ≤ 4		
ESR, DCR*	Refer to the table below (20°C). *DC internal resistance		
Endurance	The specifications listed at right shall be met when the capacitors are restored to 20°C after the rated voltage is applied for 1000 hours at 70°C.	Capacitance change	Within ±30% of the initial capacitance value
		ESR	300% or less than the initial specified value
Shelf Life	The specifications listed at right shall be met when the capacitors are restored to 20°C after storing the capacitors under no load for 1000 hours at 70°C.	Capacitance change	Within ±30% of the initial capacitance value
		ESR	300% or less than the initial specified value
Humidity Endurance	The specifications listed at right shall be met when the capacitors are restored to 20°C after the rated voltage is applied for 500 hours at 40°C 90%RH.	Capacitance change	Within ±30% of the initial capacitance value
		ESR	300% or less than the initial specified value
Marking	Printed with white color letter on black sleeve.		

## Drawing



## Type numbering system (Example : 2.7V 10F)



- Please refer to the Guidelines for Aluminum Electrolytic Capacitors for end seal configuration information.

## Dimensions

Rated Voltage ( Code )	Rated Capacitance (F)	Code	ESR (Ω) (at 1kHz)	DCR※ Typical (Ω)	Case size φ D × L (mm)
2.7V (T1)	1	105	1.8	3	8 × 11.5
	2.2	225	1.0	1.3	8 × 20
	3.3	335	0.6	1.0	10 × 20
	4.7	475	0.4	0.6	12.5 × 20
	10	106	0.2	0.25	12.5 × 31.5
	22	226	0.07	0.13	16 × 31.5
	33	336	0.06	0.08	18 × 31.5
	47	476	0.05	0.06	18 × 40

Note :

The capacitance calculated from discharge time (ΔT) with constant current ( i ) after 30minute charge with rated voltage (2.7V).

The discharge current ( i ) is 0.01 × rated capacitance (F).

The discharge time (ΔT) measured between 2V and 1V with constant current.

The capacitance calculated bellow.

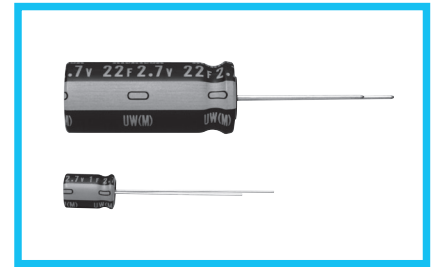
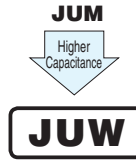
$$\text{Capacitance (F)} = i \times \Delta T$$

※ The listed DCR value is typical and therefore not a guaranteed value.

**JUW**

Radial Lead Type, High Capacitance

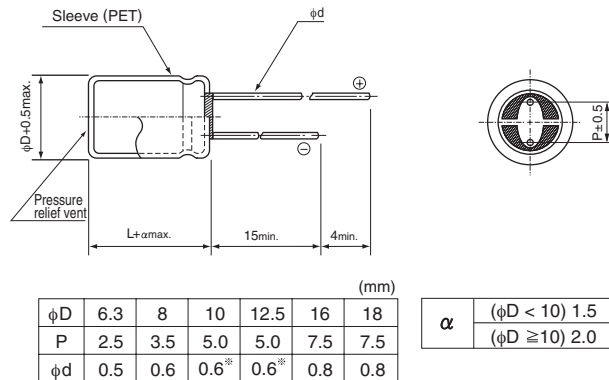
- High Capacitance type (2.7V).
- Higher capacitance than JUM.
- Wide temperature range (– 25 to +70°C).
- Compliant to the RoHS directive (2011/65/EU,(EU)2015/863).



## Specifications

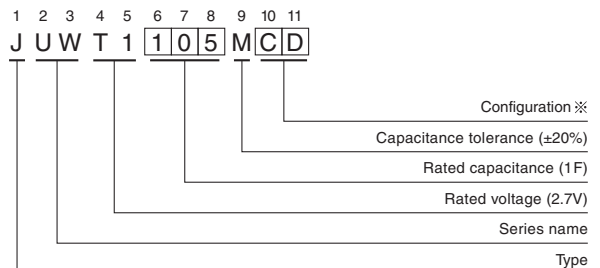
Item	Performance Characteristics		
Category Temperature Range	− 25 to +70°C		
Rated Voltage	2.7V		
Rated Capacitance Range	1 to 82F See Note		
Capacitance Tolerance	±20% , 20°C		
Stability at Low Temperature	Capacitance (− 25°C) / Capacitance (+20°C) ×100 ≥ 70% ESR (− 25°C) / ESR (+20°C) ≤ 4		
ESR, DCR*	Refer to the table below (20°C). *DC internal resistance		
Endurance	The specifications listed at right shall be met when the capacitors are restored to 20°C after the rated voltage is applied for 1000 hours at 70°C.	Capacitance change	Within ±30% of the initial capacitance value
		ESR	300% or less than the initial specified value
Shelf Life	The specifications listed at right shall be met when the capacitors are restored to 20°C after storing the capacitors under no load for 1000 hours at 70°C.	Capacitance change	Within ±30% of the initial capacitance value
		ESR	300% or less than the initial specified value
Humidity Endurance	The specifications listed at right shall be met when the capacitors are restored to 20°C after the rated voltage is applied for 500 hours at 40°C 90%RH.	Capacitance change	Within ±30% of the initial capacitance value
		ESR	300% or less than the initial specified value
Marking	Printed with white color letter on black sleeve.		

## Drawing



- Please refer to the Guidelines for Aluminum Electrolytic Capacitors for end seal configuration information.

## Type numbering system (Example : 2.7V 1F)



### ※ Configuration

φ D	Pb-free lead finishing Pb-free PET sleeve
6.3	CD
8 · 10	PD
12.5 to 18	HD

## Dimensions

Rated Voltage ( Code )	Rated Capacitance (F)	Code	ESR (Ω) (at 1kHz)	DCR※ Typical (Ω)	Case size φ D × L (mm)
2.7V (T1)	1.0	105	1.8	4	6.3 × 9
	1.5	155	1.2	2.5	8 × 11.5
	2.7	275	0.6	1.2	8 × 20
	3.3	335	0.5	1.1	10 × 12.5
	4.7	475	0.4	0.8	10 × 20
	6.8	685	0.3	0.7	12.5 × 20
	12	126	0.3	0.6	10 × 31.5
	22	226	0.2	0.4	12.5 × 31.5
	33	336	0.12	0.28	16 × 31.5
	47	476	0.1	0.22	18 × 31.5
	82	826	0.06	0.13	18 × 40

※ The listed DCR value is typical and therefore not a guaranteed value.

### Note :

The capacitance calculated from discharge time (ΔT) with constant current (i) after 30minute charge with rated voltage (2.7V).

The discharge current (i) is 0.01 × rated capacitance (F).

The discharge time (ΔT) measured between 2V and 1V with constant current.

The capacitance calculated below.

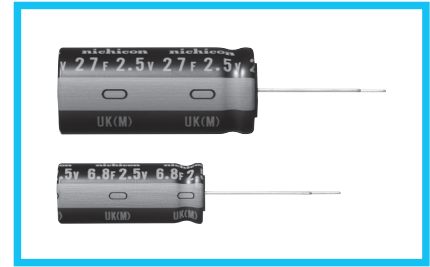
$$\text{Capacitance (F)} = i \times \Delta T$$

**JUK**

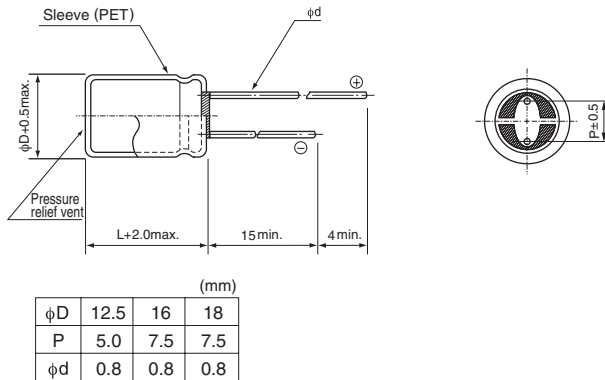
Radial Lead Type, Lower Resistance

- Lower resistance type of JUM.
- Suited for Smart Meters.
- Lower temperature range (−40 to +70°C).
- Compliant to the RoHS directive (2011/65/EU,(EU)2015/863).

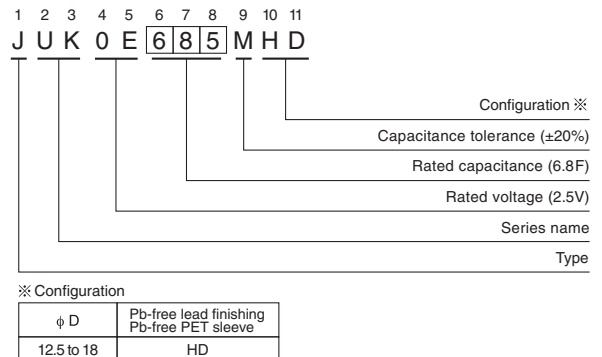
**JUM**  
Lower  
resistance

**JUK****Specifications**

Item	Performance Characteristics		
Category Temperature Range	− 40 to +70°C		
Rated Voltage	2.5V		
Rated Capacitance	6.8 to 27F    See Note		
Capacitance Tolerance	±20% , 20°C		
Stability at Low Temperature	Capacitance (− 40°C) / Capacitance (+20°C) ×100 ≥ 70%    ESR (− 40°C) / ESR (+20°C) ≤ 7		
ESR, DCR*	Refer to the table below (20°C). *DC internal resistance		
Endurance	The specifications listed at right shall be met when the capacitors are restored to 20°C after the rated voltage is applied for 1000 hours at 70°C.	Capacitance change	Within ±30% of the initial capacitance value
		ESR	300% or less than the initial specified value
Shelf Life	The specifications listed at right shall be met when the capacitors are restored to 20°C after storing the capacitors under no load for 1000 hours at 70°C.	Capacitance change	Within ±30% of the initial capacitance value
		ESR	300% or less than the initial specified value
Humidity Endurance	The specifications listed at right shall be met when the capacitors are restored to 20°C after the rated voltage is applied for 500 hours at 40°C 90%RH.	Capacitance change	Within ±30% of the initial capacitance value
		ESR	300% or less than the initial specified value
Marking	Printed with white color letter on black sleeve.		

**Drawing**

## Type numbering system (Example : 2.5V 6.8F)



- Please refer to the Guidelines for Aluminum Electrolytic Capacitors for end seal configuration information.

**Dimensions**

Rated Voltage ( Code )	Rated Capacitance (F)	Code	ESR (Ω) (at 1kHz)	DCR※ Typical (Ω)	Case size φ D × L (mm)
2.5V (0E)	6.8	685	0.075	0.085	12.5 × 31.5
	12	126	0.060	0.065	16 × 31.5
	18	186	0.055	0.055	18 × 31.5
	27	276	0.040	0.035	18 × 40

Note :

The capacitance calculated from discharge time (ΔT) with constant current ( i ) after 30minute charge with rated voltage (2.5V).

The discharge current ( i ) is 0.01 × rated capacitance (F).

The discharge time (ΔT) measured between 2V and 1V with constant current.

The capacitance calculated below.

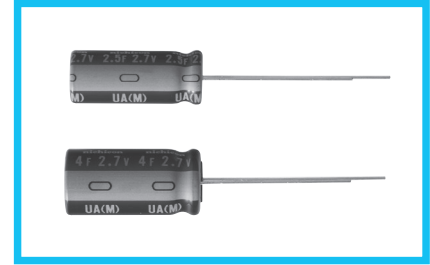
$$\text{Capacitance (F)} = i \times \Delta T$$

※ The listed DCR value is typical and therefore not a guaranteed value.

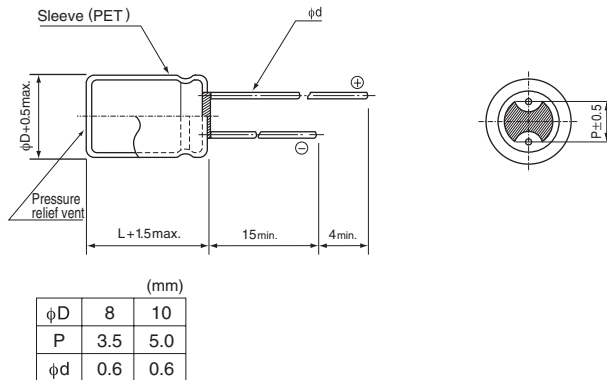
**JUA**

Radial Lead Type, Lower Resistance, Long Life

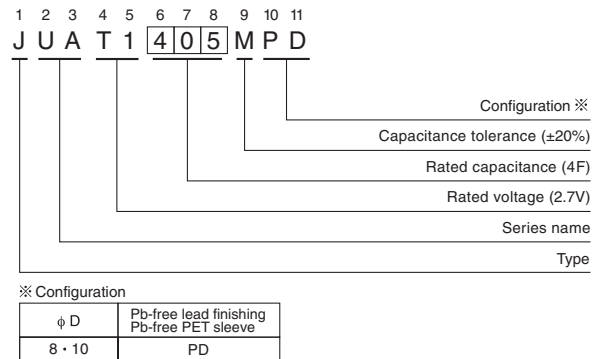
- Lower resistance and long life type of JUM.
- Lower temperature range (– 40 to +70°C).
- Load life of 2000hours at 70°C.
- Compliant to the RoHS directive (2011/65/EU,(EU)2015/863).

**JUA****Specifications**

Item	Performance Characteristics		
Category Temperature Range	− 40 to +70°C		
Rated Voltage	2.7V		
Rated Capacitance	1.2 to 4.7F See Note		
Capacitance Tolerance	±20% , 20°C		
Stability at Low Temperature	Capacitance (− 40°C) / Capacitance (+20°C) ×100 ≥ 70% ESR (− 40°C) / ESR (+20°C) ≤ 7		
ESR	Refer to the table below (20°C).		
Endurance	The specifications listed at right shall be met when the capacitors are restored to 20°C after the rated voltage is applied for 2000 hours at 70°C.	Capacitance change	Within ±30% of the initial capacitance value
		ESR	400% or less than the initial specified value
Shelf Life	The specifications listed at right shall be met when the capacitors are restored to 20°C after storing the capacitors under no load for 1000 hours at 70°C.	Capacitance change	Within ±30% of the initial capacitance value
		ESR	400% or less than the initial specified value
Humidity Endurance	The specifications listed at right shall be met when the capacitors are restored to 20°C after the rated voltage is applied for 500 hours at 40°C 90%RH.	Capacitance change	Within ±30% of the initial capacitance value
		ESR	300% or less than the initial specified value
Marking	Printed with white color letter on black sleeve.		

**Drawing**

## Type numbering system (Example : 2.7V 4F)

**Dimensions**

Rated Voltage ( Code )	Rated Capacitance ( F )	Code	ESR (Ω) (at 1kHz)	DCR※ Typical (Ω)	Case size φ D × L (mm)
2.7V (T1)	1.2	125	0.40	0.40	8 × 11.5
	2.0	205	0.25	0.25	10 × 12.5
	2.5	255	0.15	0.15	8 × 20
	4.0	405	0.10	0.10	10 × 20
	4.7	475	0.15	0.13	10 × 20

Note :

The capacitance calculated from discharge time (ΔT) with constant current ( i ) after 30minute charge with rated voltage (2.7V).

The discharge current ( i ) is 0.01 × rated capacitance (F).

The discharge time (ΔT) measured between 2V and 1V with constant current.

The capacitance calculated below.

$$\text{Capacitance (F)} = i \times \Delta T$$

※ The listed DCR value is typical and therefore not a guaranteed value.



Snap-in Terminal Type

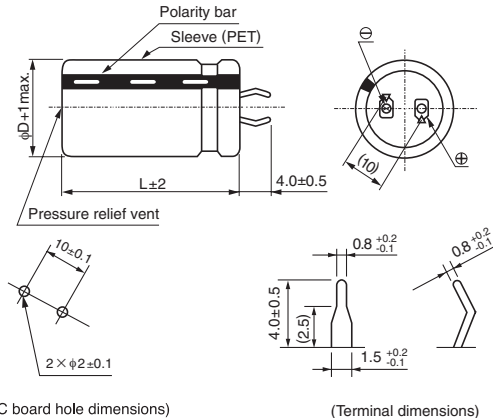
- Excellent in voltage holding property.
- Suitable for quick charge and discharge.
- Wide temperature range (– 25°C to + 60°C).
- Compliant to the RoHS directive (2011/65/EU,(EU)2015/863).



## Specifications

Item	Performance Characteristics		
Category Temperature Range	− 25 to +60°C		
Rated Voltage Range	2.5V		
Rated Capacitance Range	56 to 200F    See Note		
Capacitance Tolerance	± 20% (20°C)		
Stability at Low Temperature	Capacitance (− 25°C) / Capacitance (+20°C) ×100 ≥ 70%    ESR (− 25°C) / ESR (+20°C) ≤ 7		
ESR, DCR*	Refer to the table below (20°C). *DC internal resistance		
Endurance	The specifications listed at right shall be met when the capacitors are restored to 20°C after the rated voltage is applied for 2000 hours at 60°C.	Capacitance change	Within ±30% of the initial capacitance value
		ESR	300% or less than the initial specified value
Shelf Life	The specifications listed at right shall be met when the capacitors are restored to 20°C after storing the capacitors under no load for 2000 hours at 60°C.	Capacitance change	Within ±30% of the initial capacitance value
		ESR	300% or less than the initial specified value
Humidity Endurance	The specifications listed at right shall be met when the capacitors are restored to 20°C after the rated voltage is applied for 500 hours at 40°C 90%RH.	Capacitance change	Within ±30% of the initial capacitance value
		ESR	300% or less than the initial specified value
Marking	Printed with white color letter on black sleeve.		

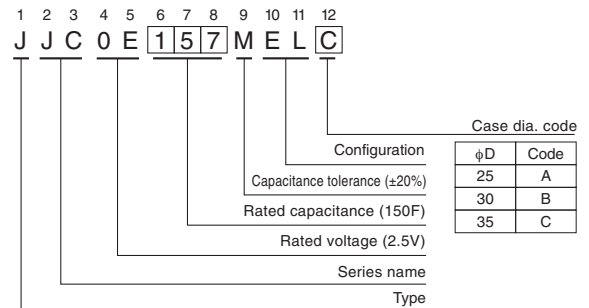
## Drawing



(PC board hole dimensions)

(Terminal dimensions)

## Type numbering system (Example : 2.5V 150F)



## Dimensions

Rated Voltage (code)	Cap. (F)	Cap. code	ESR(mΩ) (at 1kHz)	DCR※ Typical (mΩ)	Case size φD × L (mm)		
					φ 25 (A)	φ 30 (B)	φ 35 (C)
2.5V (0E)	56	566	70	50	25 × 40	30 × 30	
	68	686	60	45			35 × 30
	82	826	60	35	25 × 50	30 × 40	
	100	107	50	30			35 × 35
	120	127	50	25		30 × 50	35 × 40
	150	157	40	22			35 × 50
	200	207	30	16			35 × 50

※ The listed DCR value is typical and therefore not a guaranteed value.

### Note :

The capacitance calculated from discharge time ( $\Delta T$ ) with constant current ( $i$ ) after 30minute charge with rated voltage (2.5V).

The discharge current ( $i$ ) is  $0.01 \times$  rated capacitance (F). The discharge time ( $\Delta T$ ) measured between 2V and 1V with constant current.

The capacitance calculated bellow.

$$\text{Capacitance (F)} = i \times \Delta T$$

JJD

Screw Terminal Type, High Energy Density Type

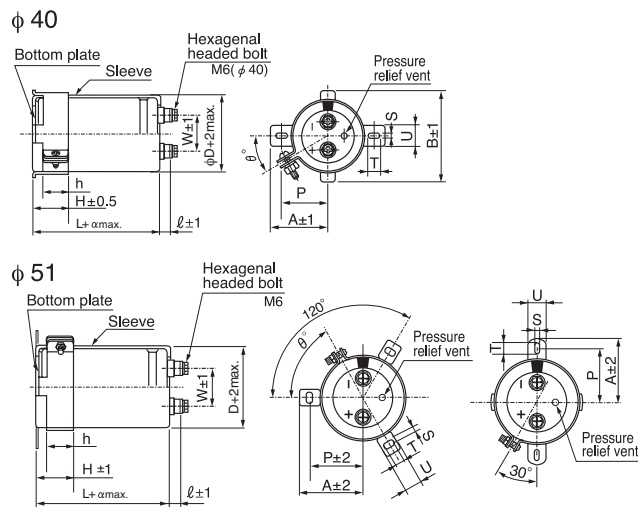
- High energy density.
- Suitable for electric power storage.
- Compliant to the RoHS directive (2011/65/EU,(EU)2015/863).



## ■ Specifications

Item	Performance Characteristics		
Category Temperature Range	− 25 to +60°C		
Rated Voltage Range	2.5V		
Rated Capacitance Range	1000 to 2500F See Note		
Capacitance Tolerance	± 20% , 20°C		
Stability at Temperature	Capacitance (− 25°C) / Capacitance (+20°C) ×100 ≥ 70%    DCR (− 25°C) / DCR(+20°C) ≤ 7		
DCR*	Refer to the table below (20°C). *DC internal resistance		
Endurance	The specifications listed at right shall be met when the capacitors are restored to 20°C after the rated voltage is applied for 2000 hours at 60°C.	Capacitance change	Within ±30% of the initial capacitance value
		DCR	300% or less than the initial specified value
Shelf Life	The specifications listed at right shall be met when the capacitors are restored to 20°C after storing the capacitors under no load for 2000 hours at 60°C.	Capacitance change	Within ±30% of the initial capacitance value
		DCR	300% or less than the initial specified value
Humidity Endurance	The specifications listed at right shall be met when the capacitors are restored to 20°C after the rated voltage is applied for 500 hours at 40°C 90%RH.	Capacitance change	Within ±30% of the initial capacitance value
		DCR	300% or less than the initial specified value
Marking	Printed with white color letter on black sleeve.		

## ■ Drawing



## Type numbering system (Example : 2.5V 1000F)

1	2	3	4	5	6	7	8	9	10	11	12	13	14
J	J	D	0	E	1	0	8	M	S	E	D		
<div> <div>Case dia. code(φ40)</div> <div>Configuration ※</div> <div>Capacitance tolerance (±20%)</div> <div>Rated capacitance (1000F)</div> <div>Rated voltage (2.5V)</div> <div>Series name</div> <div>Type</div> </div>													
<div> <div>※ Configuration</div> <div>Cr (III) Plating (RoHS compliant)</div> <div>SE</div> </div>													
<div> <div>Mounting bracket</div> <div> <div>φD</div> <div>Code</div> <div>40</div> <div>D</div> </div> <div> <div>Code less</div> <div>BN</div> </div> <div> <div>2-leg brackets</div> <div>No brackets</div> </div> </div>													
<div> <div>φ51</div> <div>Code less</div> <div>BB</div> <div>BN</div> </div> <div> <div>3-leg brackets</div> <div>2-leg brackets</div> <div>No bracket</div> </div>													

## Note :

The capacitance calculated from discharge time ( $\Delta T$ ) with constant current ( $i$ ) after 30minute charge with rated voltage (2.5V).  
 The discharge current ( $i$ ) is  $0.01 \times$  rated capacitance (F).  
 The discharge time ( $\Delta T$ ) measured between 2V and 1V with constant current.  
 The capacitance calculated below.  
 $Capacitance (F) = i \times \Delta T$

- Dimensions of terminal pitch(W) and length( $\ell$ ) and Normal dia. of bolt (mm)

φ D	W	ℓ	α	Nominal of bolt
40	18.8	9	3	M6
51	26.0	10	3	M6

## ■ Dimensions

Rated Voltage (Code)	Cap. (F)	Cap. code	DCR ※ Typical (mΩ)	Case size		Ref. Weight (g)
				φ (mm)	L (mm)	
2.5V (0E)	1000	108	8.0	40	105	210
	1300	138	6.0		135	250
	2300	238	4.0	51	135	450
	2500	258	3.5		142	500

※ The listed DCR value is typical and therefore not a guaranteed value.

- Dimensions of mounting bracket (mm)

Symbol	Leg shape φD	3-Legs		2-Legs	
		51	40	51	
P		32.5	27	33.2	
A		38.5	32	40	
B		—	48	—	
T		7.5	7.0	6.0	
S		5.0	3.5	4.5	
U		12	10	14	
θ°		60	45	30	
H		20	17	25	
h		15	12	15	

Note) The brackets will be supplied in the separate box.

J J L

Screw Terminal Type, High Power Density Type

- High power density.
- Rapid charge-discharge.
- Suitable for regeneration and UPS applications.
- Compliant to the RoHS directive (2011/65/EU,(EU)2015/863).

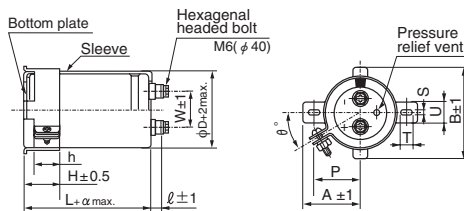


## ■ Specifications

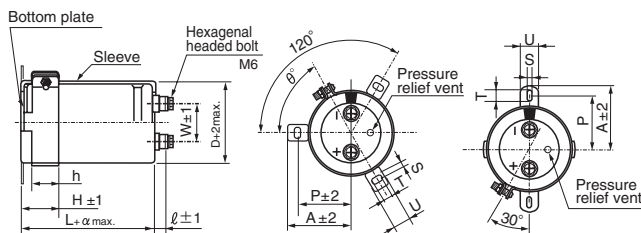
Item	Performance Characteristics		
Category Temperature Range	- 25 to +60°C		
Rated Voltage Range	2.5V		
Rated Capacitance Range	700 to 2000F    See Note		
Capacitance Tolerance	±20%(20°C)		
Stability at Low Temperature	Capacitance (- 25°C) / Capacitance (+20°C) ×100 ≥ 70%    DCR (- 25°C) / DCR (+20°C) ≤ 7		
DCR*	Refer to the table below (20°C). *DC internal resistance		
Endurance	The specifications listed at right shall be met when the capacitors are restored to 20°C after the rated voltage is applied for 2000 hours at 60°C.	Capacitance change	Within ±30% of the initial capacitance value
		DCR	300% or less than the initial specified value
Shelf Life	The specifications listed at right shall be met when the capacitors are restored to 20°C after storing the capacitors under no load for 2000 hours at 60°C.	Capacitance change	Within ±30% of the initial capacitance value
		DCR	300% or less than the initial specified value
Humidity Endurance	The specifications listed at right shall be met when the capacitors are restored to 20°C after the rated voltage is applied for 500 hours at 40°C 90%RH.	Capacitance change	Within ±30% of the initial capacitance value
		DCR	300% or less than the initial specified value
Marking	Printed with white color letter on black sleeve.		

## ■ Drawing

φ 40



φ 51



## Type numbering system (Example : 2.5V 700F)

1	2	3	4	5	6	7	8	9	10	11	12	13	14
J	J	L	O	E	7	0	7	M	S	E	D		
<div> <div>Configuration ※</div> <div>Capacitance tolerance (±20%)</div> <div>Rated capacitance (700F)</div> <div>Rated voltage (2.5V)</div> <div>Series name</div> <div>Type</div> </div>													
<div> <div>Cr (III) Plating (RoHS compliant)</div> <div>SE</div> </div>													
<div> <div>Case dia. code(φ40)</div> <div>φD Code</div> <div>40 D</div> <div>51 F</div> </div>													
<div> <div>Mounting bracket</div> <div>Code less 2-leg brackets</div> <div>BN No brackets</div> <div>Code less 3-leg brackets</div> <div>BB 2-leg brackets</div> <div>BN No bracket</div> </div>													

## Note :

The capacitance calculated from discharge time ( $\Delta T$ ) with constant current ( $i$ ) after 30minuite charge with rated voltage (2.5V).  
 The discharge current ( $i$ ) is  $0.01 \times$  rated capacitance (F).  
 The discharge time ( $\Delta T$ ) measured between 2V and 1V with constant current.  
 The capacitance calculated below.  
 $\text{Capacitance (F)} = i \times \Delta T$

- Dimensions of terminal pitch(W) and length(  $\ell$  ) and Normal dia. of bolt (mm)

φ D	W	ℓ	α	Nominal of bolt
40	18.8	9	3	M6
51	26.0	10	3	M6

## ■ Dimensions

Rated Voltage (Code)	Cap. (F)	Cap. code	DCR※ Typical (mΩ)	Case size φ D × L (mm)		Ref. Weight (g)
				φ D	L	
2.5V (0E)	700	707	3.5	40	105	210
	1000	108	2.5		142	250
	1200	128	2.2		167	300
	1100	118	2.8	51	105	380
	1700	178	1.7		142	500
	2000	208	1.5		167	600

※ The listed DCR value is typical and therefore not a guaranteed value.

- Dimensions of mounting bracket (mm)

Leg shape	Symbol	3-Legs		2-Legs	
		φ D	51	40	51
P		32.5		27	33.2
A		38.5		32	40
B		—		48	—
T		7.5		7.0	6.0
S		5.0		3.5	4.5
U		12		10	14
θ°		60		45	30
H		20		17	25
h		15		12	15

Note) The brackets will be supplied in the separate box.

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