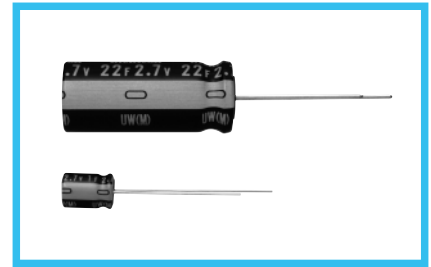
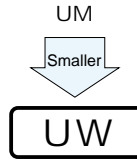


## UW series Radial Lead Type, High Voltage, Smaller-Sized

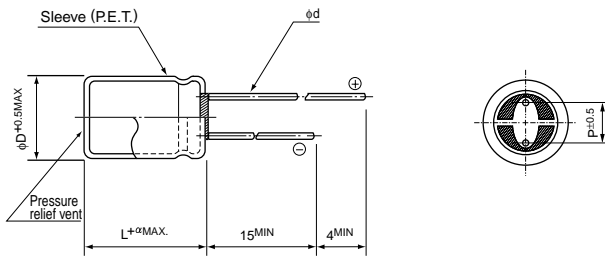
- High voltage type (2.7V).
- One rank smaller case sized than UM series.
- Wide temperature range (−25 to +70°C).
- Compliant to the RoHS directive (2002/95/EC).



### 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	
Leakage Current	0.5C (mA) [ C : Rated Capacitance(F)] (After 30 minutes' application of rated voltage : 2.7V)	
Stability at Low Temperature	Capacitance (−25°C) / Capacitance (+20°C) ×100 ≥ 70%	
ESR, DCR*	Refer to the table below (20°C). *DC internal resistance	
Endurance	Capacitance change	Within ±30% of the initial capacitance value
	ESR	300% or less than the initial specified value
	Leakage current	Less than or equal to the initial specified value
Shelf Life	Capacitance change	Within ±30% of the initial capacitance value
	ESR	300% or less than the initial specified value
	Leakage current	Less than or equal to the initial specified value
Marking	Printed with white color letter on black sleeve.	

### Drawing



	(mm)					
φD	6.3	8	10	12.5	16	18
P	2.5	3.5	5.0	5.0	7.5	7.5
φd	0.5	0.6	0.6*	0.6*	0.8	0.8

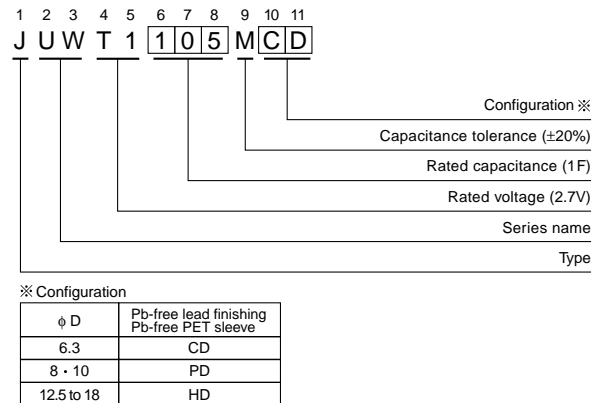
  

α	(φD < 10)	1.5
	(φD ≥ 10)	2.0

\* In case L>25 for the φ10 and φ12.5 dia unit, lead dia φd=0.8

• Please refer to page 20 about the end seal configuration.

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



### 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	4	4	6.3 × 9
	1.5	155	3	2.5	8 × 11.5
	2.7	275	2	1.2	8 × 20
	4.7	475	1	0.8	10 × 20
	6.8	685	0.8	0.7	12.5 × 20
	12	126	0.4	0.6	10 × 31.5
	22	226	0.3	0.4	12.5 × 31.5
	33	336	0.2	0.28	16 × 31.5
	47	476	0.2	0.22	18 × 31.5
82	826	0.1	0.13	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 below.

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

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