



EN: This Datasheet/Document is presented by the manufacturer.

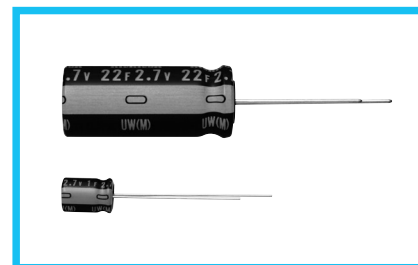
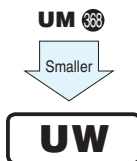
Please visit our website for pricing and availability at www.hestore.hu.

UW series

Radial Lead Type, High Voltage, Smaller-Sized

Expanded

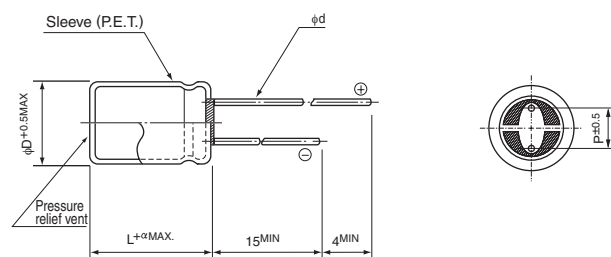
- High voltage type (2.7V).
- One rank smaller case sized than UM series.
- Wide temperature range (– 25 to +70°C).
- Compliant to the RoHS directive (2011/65/EU).



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	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
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.	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.	Capacitance change
		Within ±30% of the initial capacitance value
		ESR
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.	300% or less than the initial specified value
		Leakage current
		Less than or equal to the initial specified value

Drawing

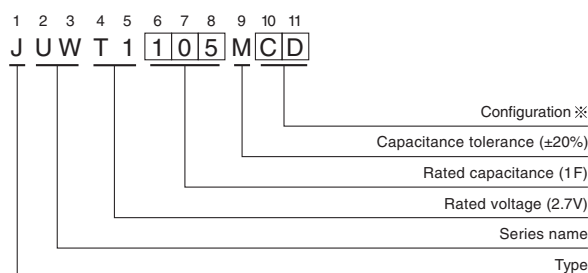


	(mm)					
φD	6.3	8	10	12.5	16	18
P	2.5	3.5	5.0	5.0	7.5	7.5
φd	0.5	0.6	0.6*	0.6*	0.8	0.8

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

α	(φD < 10) 1.5
	(φD ≥ 10) 2.0

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

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

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	4	4	6.3 × 9
	1.5	155	3	2.5	8 × 11.5
	2.7	275	2	1.2	8 × 20
	3.3	335	2	1.1	10 × 12.5
	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

※ 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.

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