Radial Lead Type, High Voltage series

- High voltage type (2.7V).
- Suitable for quick charge and discharge.
- Wide temperature range (− 25 to +70°C).
- Compliant to the RoHS directive (2002/95/EC).

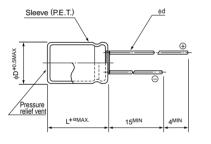




■ Specifications

Item	Performance Characteristics				
Category Temperature Range	− 25 to +70°C				
Rated Voltage Range	2.7V				
Rated Capacitance Range	0.47 to 47F 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 list below (20°C). *DC internal resistance				
Endurance	The specifications listed at right shall be met when the capacitors	Capacitance change	Within ±30% of the initial capacitance value		
	are restored to 20°C after the rated voltage is applied for 1000 hours	ESR	300% or less than the initial specified value		
	at 70°C.	Leakage current	Less than or equal to 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	Capacitance change	Within ±30% of the initial capacitance value		
		ESR	300% or less than the initial specified value		
	for 1000 hours at 70°C.	Leakage current	Less than or equal to the initial specified value		
Marking	Printed with white color letter on black sleeve.				

Drawing





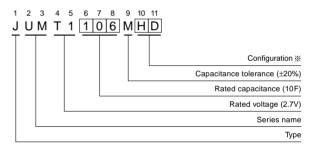
(φD < 10) 1.5 (φD ≥10) 2.0

						(mm)	
φD	6.3	8	10	12.5	16	18	
Р	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	
	т-	P 2.5	P 2.5 3.5	P 2.5 3.5 5.0	P 2.5 3.5 5.0 5.0	P 2.5 3.5 5.0 5.0 7.5	φD 6.3 8 10 12.5 16 18 P 2.5 3.5 5.0 5.0 7.5 7.5

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

• Please refer to page 20 for end seal configulation.

Type numbering system (Example: 2.7V 10F)



※ Configuration

Pb-free lead finishing Pb-free PET sleeve		
ED		
PD		
HD		

Dimensions

Differsions						
Rated Voltage (Code)	Rated Capacitance (F)	Code	ESR (Ω) (at 1kHz)	DCR* Typical (Ω)	Case size φ D × L (mm)	
2.7V (T1)	0.47	474	4	6	6.3×9	
	1	105	2	3	8 × 11.5	
	2.2	225	2	1.3	8×20	
	3.3	335	1	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	0.2	0.13	16×31.5	
	33	336	0.1	0.08	18 × 31.5	
	47	476	0.1	0.06	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 30minuite charge with rated voltage (2.7V).

The discharge current (i) is $0.01 \times \text{rated}$ capacitance (F).

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

The capacitance calculated bellow.

Capacitance (F) = $i \times \Delta T$