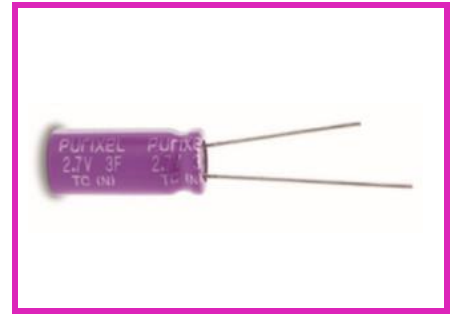


# Purixel(ELECTRIC DOUBLE LAYER CAPACITORS)

# PTC

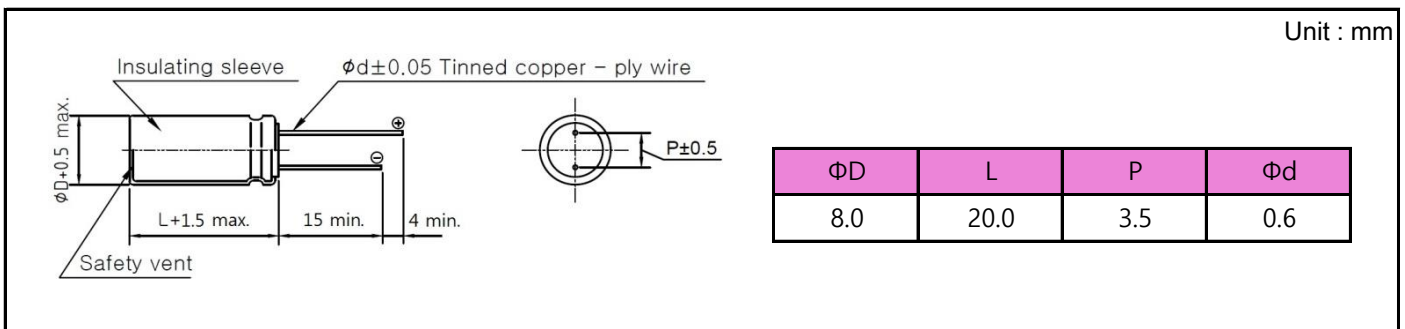
Radial Type  
Standard Series



- Endurance : 2.7V 85°C 1000 hours
- Small size, high capacitance and low resistance
- Longer cycle life than other secondary batteries

Item	Characteristics	
Operating Temperature Range	-40 ~ +85°C	
Rated Voltage	2.7 VDC	
Capacitance Tolerance	-10% ~ +20%	
Temperature Characteristics	Capacitance change	Within ±5% of initial value at +25°C
	Internal resistance	Within ±50% of initial value at +25°C
Endurance	Duration	1000 hours
	Capacitance charge	Within ≤30% of initial value
	Internal resistance	Within ≤200% of initial specified value
Shelf Life	After 1000 hours no load test same as endurance	
Life Time at RT <sup>(1)</sup>	10 years	(1)  ΔC  ≤30% of initial value and  ESR  ≤200% of initial specified value.
Cycle Life(25°C) <sup>(1)(2)</sup>	500,000 cycles	(2) Cycle : between rated voltage and half rated voltage under constant current at 25 °C

## • DIMENSIONS



## • SPECIFICATIONS

Rated Voltage	Cap.	ESR, 1kHz	ESR, DC	LC(72hr)	Specific Energy	Specific Power	Max. Peak Current	Weight	Volume	PART No.
V	F	mΩ	mΩ	mA	Wh/kg	kW/kg	A	g	mL	
2.7	3	45	70	0.010	1.90	16.27	3.35	1.60	1.00	PTC02R7SN30508020

1. Capacitance and Equivalent Series Resistance (ESR) measured according to IEC62391-1 at +25°C, with current in milliamps (mA) = 10°C
2. Leakage Current at 25°C after 72 hours charge and hold
3. Specific Energy (Wh/kg) =  $(\frac{1}{2} * C * V^2) / 3600 / \text{weight}$
4. Specific Power (kW/kg) =  $(V^2 / 4 * \text{ESR}) / \text{weight}$
5. Max Peak Current in Amps (A), 1 second discharge from rated voltage to half rated voltage =  $(\frac{1}{2} * C * V) / (1 + \text{ESR} * C)$