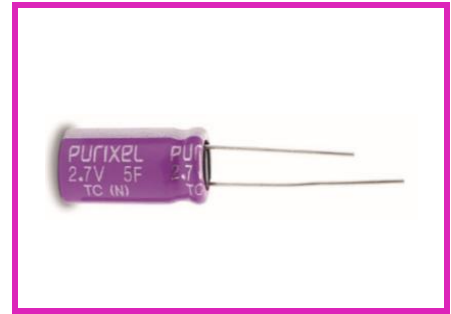


# Purixel(ELECTRIC DOUBLE LAYER CAPACITORS)

# 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

Unit : mm

ΦD	L	P	Φd
10.0	20.0	5.0	0.6

## • 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	5	40	45	0.015	2.20	17.61	5.51	2.30	1.57	PTC02R7SN50510020

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) = (½\*C\*V²/3600)/weight
4. Specific Power (kW/kg) = (V²/4\*ESR)/weight
5. Max Peak Current in Amps (A), 1 second discharge from rated voltage to half rated voltage = (½\*C\*V)/(1+ESR\*C)