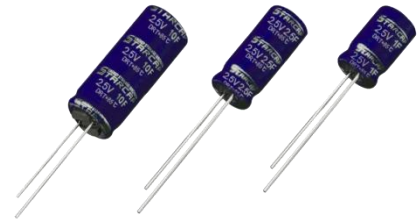


Features

- Wide operating temperature range from **-40°C to +85°C**
- Low ESR and high power
- Pb free and RoHS compliant

Application

- **Automotive applications** such as DVR, Black box
- Smart meters (Electricity, Gas, Water)
- Various motor drive, valve open and close

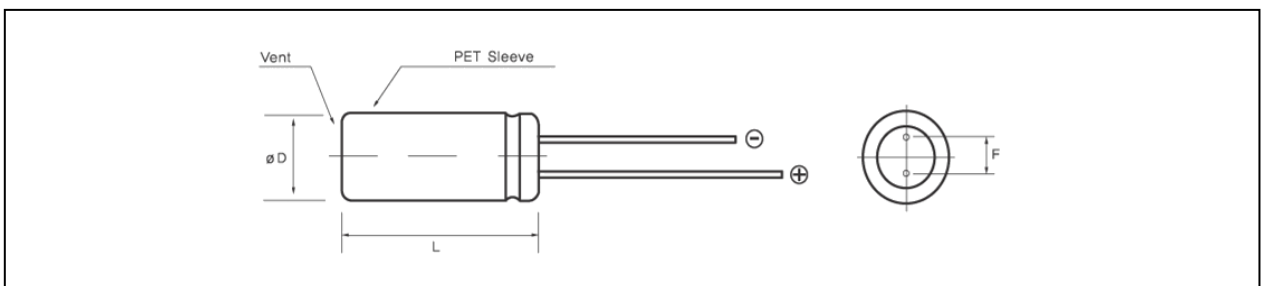


Specifications

Items	Characteristics
Rated voltage	2.5 VDC
Operating temperature	-40 to +85°C
Capacitance	1 to 15F
Capacitance tolerance	-20% to +40% (at 25°C)
Endurance	After 1,000 hours applied with 2.5VDC at +85°C, the capacitor shall meet the following limits. <ul style="list-style-type: none"> • Capacitance change : Within $\pm 30\%$ of initial measured value • ESR : 4 times or less than initial measured value
Projected Cycle Life*	500,000 Cycles
	1 Cycle : Charge-Discharge between V_{rated} and $1/2V_{rated}$ <ul style="list-style-type: none"> • Capacitance change : $\leq 30\%$ of initial value • Internal resistance change : $\leq 100\%$ of spec. value
Shelf life	After 1,000hours storage at +65°C without load, the capacitor shall meet the specified limit for "Endurance"

* Cycle life varies according to the condition of application i.e. charge-discharge condition including current, temperature, voltage range and etc.

Shape of Standard Product



Standard Products and Dimensions (not to scale)

Part number	Operating voltage (V)	Capacitance (F)	ESR (Ω , @1kHz)	$\varnothing D \times L$ (mm)	F (mm)
DRT 2R5 105	2.5	1	≤ 0.200	$\varnothing 8.0 \times 13.0$	3.5
DRT 2R5 255		2.5	≤ 0.075	$\varnothing 8.0 \times 20.0$	3.5
DRT 2R5 505		5	≤ 0.060	$\varnothing 10.0 \times 20.0$	5.0
DRT 2R5 705		7	≤ 0.050	$\varnothing 10.0 \times 25.0$	5.0
DRT 2R5 106		10	≤ 0.035	$\varnothing 10.0 \times 30.0$	5.0
DRT 2R5 156		15	≤ 0.030	$\varnothing 12.5 \times 25.0$	5.0

Note : It is not allowed to go through reflow (IR, Atmosphere heating methods etc.) process