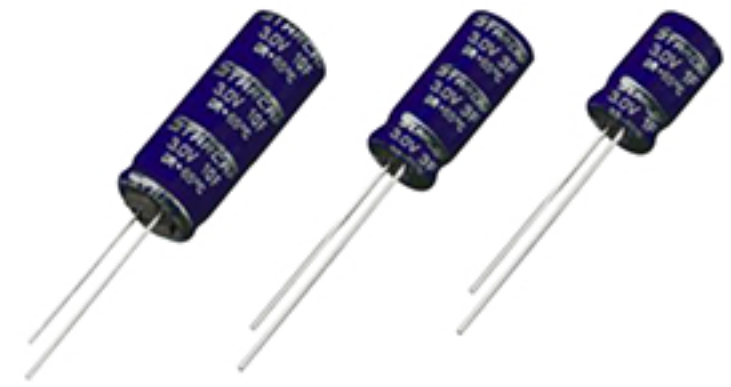


| Features |

- Small size but large capacity
- High Working Voltage, Low ESR
- Pb Free and RoHS Compliant

| Application |

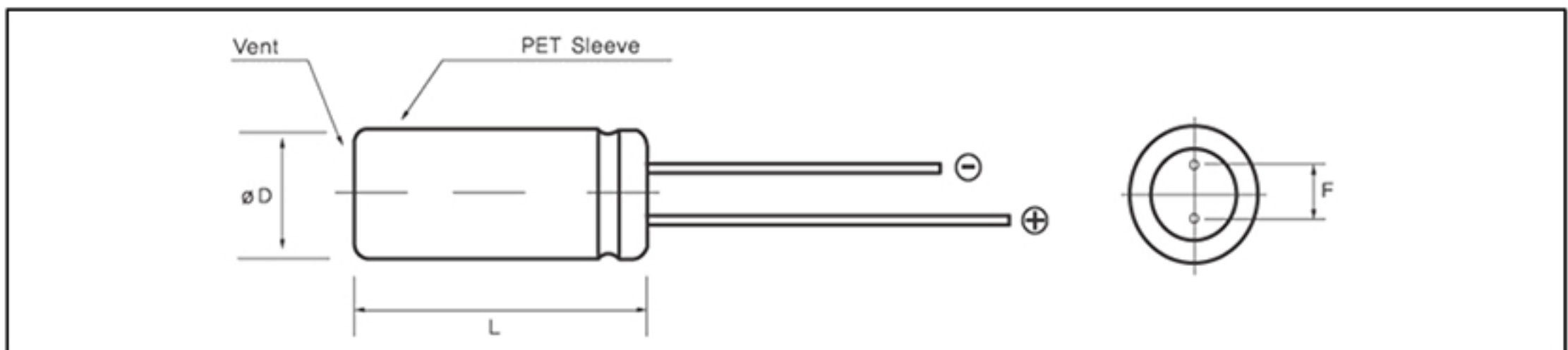
- Automotive (DVR, Black box, etc.)
- Motor drive through quick discharge (e.g. Toy car & plane)
- Smart Grid (Smart energy meters – electricity, water, gas)



| Specifications |

Items	Characteristics
Rated voltage	3.0 VDC
Operating temperature	-40 to +65°C
Capacitance	1 to 15F
Capacitance tolerance	-20% to +40% (at 25°C)
Endurance	After 1,000 hours Application of rated DC working voltage at +65°C, the capacitor shall meet the following limits. <ul style="list-style-type: none"> • Capacitance change : $\leq 30\%$ of initial value • Internal resistance change : $\leq 100\%$ of spec. value
Shelf life	After 1,000 hours Application of rated DC working voltage at +65°C, the capacitor shall meet the following limits. <ul style="list-style-type: none"> • Capacitance change : $\leq 30\%$ of initial value • Internal resistance change : $\leq 100\%$ of spec. value

| 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)
DR 3R0 105	3.0	1	≤ 0.200	$\varnothing 8 \times 13$	3.5
DR 3R0 305		3	≤ 0.075	$\varnothing 8 \times 20$	3.5
DR 3R0 505		5	≤ 0.060	$\varnothing 10 \times 20$	5.0
DR 3R0 705		7	≤ 0.050	$\varnothing 10 \times 25$	5.0
DR 3R0 106		10	≤ 0.035	$\varnothing 10 \times 30$	5.0
DR 3R0 156		15	≤ 0.030	$\varnothing 12.5 \times 25$	5.0

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