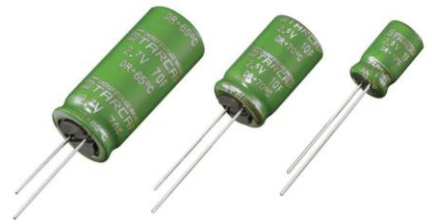


## Features

- Extremely low leakage current
- Extremely low ESR
- High pulse power

## Application

- More than 100mA from milli-sec to several-min
- Motor start Power applications, Peak power with battery
- POS system, Handy terminal, Bar-cord scanner, GPS/GPRS Wireless modem

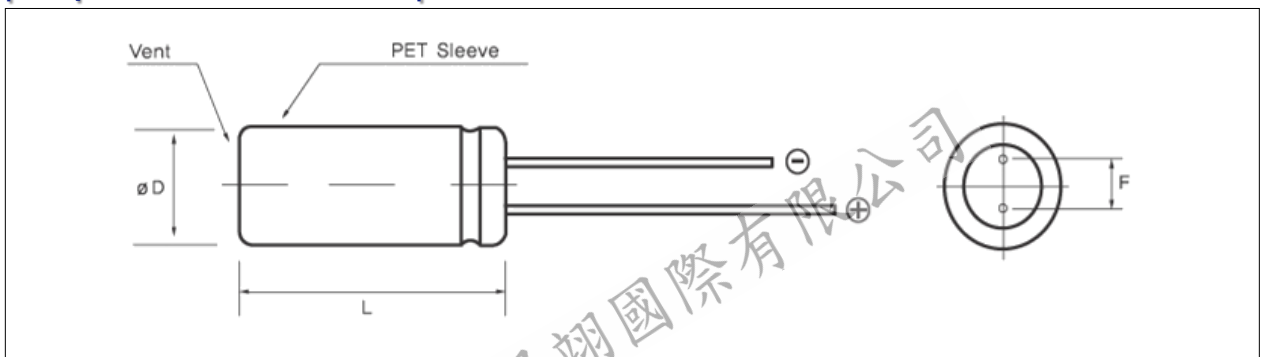


## Specification

Items	Characteristics	
Rated working voltage	2.5VDC	2.7VDC
Operating temperature	-25to+70°C	-40to +65°C
Nominal Cap. range	1.5F to 30F	
Capacitance tolerance	-20% to +40%(at25°C)	
Endurance	After 1,000 hours Application of rated DC working voltage at +65/70°C, the capacitor shall meet the following limits. <ul style="list-style-type: none"> <li>• Capacitance change : ≤30% of initial value</li> <li>• Internal resistance change : ≤100% of spec. value</li> </ul>	
Projected Cycle Life*	500,000 Cycles	
	1 Cycle : Charge-Discharge between $V_{rated}$ and $1/2V_{rated}$ <ul style="list-style-type: none"> <li>• Capacitance change : ≤30% of initial value</li> <li>• Internal resistance change : ≤100% of spec. value</li> </ul>	
Shelf life	2 Years (Storage in Operating temp. range above for each products without electrical load) <ul style="list-style-type: none"> <li>• Capacitance change : ≤10% of initial value</li> <li>• Internal resistance change : ≤50% of initial value</li> </ul>	

\* 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

Part Number	Operating Voltage (V)	Capacitance (F)	ESR ( $\Omega$ , @1kHz)	$\varnothing$ x L (mm)	F (mm)
HP 2R5 155	2.5	1.5	$\leq 0.125$	$\varnothing$ 8x20	3.5
HP 2R5 205		2	$\leq 0.110$	$\varnothing$ 8x25	3.5
HP 2R5 305		3	$\leq 0.090$	$\varnothing$ 10x20	5.0
HP 2R5 405		4	$\leq 0.080$	$\varnothing$ 10x25	5.0
HP 2R5 555		5.5	$\leq 0.050$	$\varnothing$ 12.5x20	5.0
HP 2R5 805		8	$\leq 0.035$	$\varnothing$ 12.5x25	5.0
HP 2R5 156		15	$\leq 0.025$	$\varnothing$ 16x25	7.5
HP 2R5 206		20	$\leq 0.020$	$\varnothing$ 16x35	7.5
HP 2R5 306		30	$\leq 0.015$	$\varnothing$ 18x40	7.5
HP 2R7 155		2.7	1.5	$\leq 0.050$	$\varnothing$ 8x20
HP 2R7 205	2		$\leq 0.045$	$\varnothing$ 8x25	3.5
HP 2R7 305	3		$\leq 0.040$	$\varnothing$ 10x20	5.0
HP 2R7 405	4		$\leq 0.030$	$\varnothing$ 10x25	5.0
HP 2R7 555	5.5		$\leq 0.028$	$\varnothing$ 12.5x20	5.0
HP 2R7 805	8		$\leq 0.024$	$\varnothing$ 12.5x25	5.0
HP 2R7 156	15		$\leq 0.020$	$\varnothing$ 16x25	7.5
HP 2R7 206	20		$\leq 0.018$	$\varnothing$ 16x35	7.5
HP 2R7 306	30		$\leq 0.015$	$\varnothing$ 18x40	7.5

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