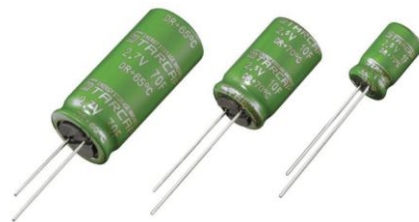


Features

- 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

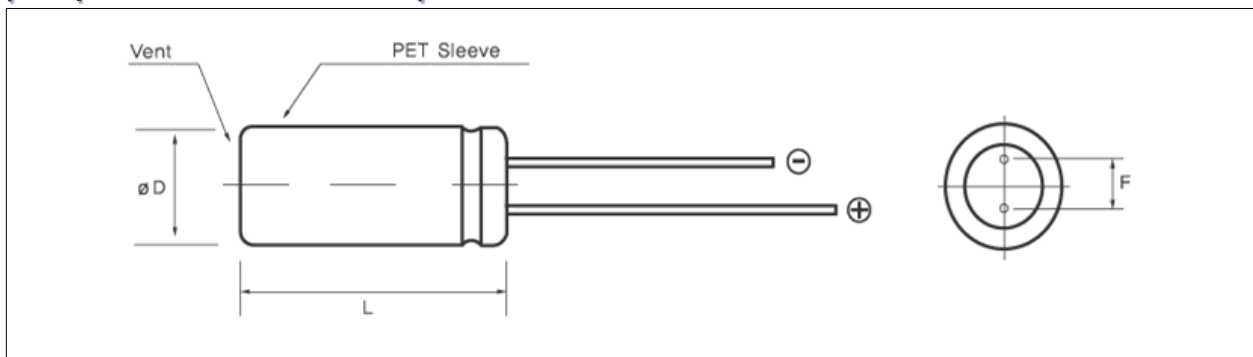


Specification

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. • Capacitance change : ≤30% of initial value • Internal resistance change : ≤100% of spec. value	
Projected Cycle Life*	500,000 Cycles	
	1 Cycle : Charge-Discharge between V_{rated} and $1/2V_{rated}$ • Capacitance change : ≤30% of initial value • Internal resistance change : ≤100% of spec. value	
Shelf life	2 Years (Storage in Operating temp. range above for each products without electrical load) • Capacitance change : ≤10% of initial value • Internal resistance change : ≤50% of initial value	

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

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