

## Features

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

## Applications

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

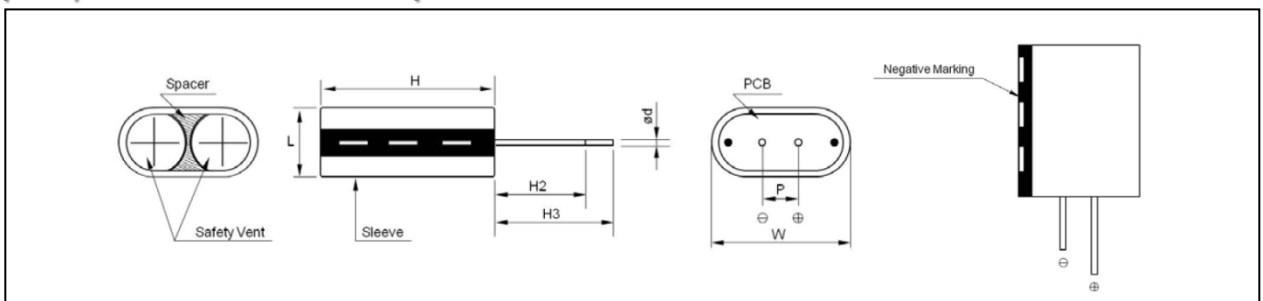


## Specifications

Items	Characteristics
Rated working voltage	5.0 VDC
Operating temperature	-40 to +85°C
Nominal Cap. range	0.5F to 7.5F
Capacitance tolerance	-20% to +40%(at 25°C)
Endurance	After 1,000 hours applied with 5.0VDC at +85°C, the capacitor shall meet the following limits. <ul style="list-style-type: none"> <li>• Capacitance change : Within <math>\pm 30\%</math> of initial measured value</li> <li>• ESR : 4 times or less than initial measured 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 : <math>\leq 30\%</math> of initial value</li> <li>• Internal resistance change : <math>\leq 100\%</math> of spec. value</li> </ul>
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)	Operating temperature	Capacitance (F)	ESR ( $\Omega$ , @1kHz)	W x L x H (mm)	F (mm)
DRMT 5R0 504	5.0	-40 ~ 85°C	0.5	$\leq 0.400$	16.5 X 8.0 X 14.0	5.2/12.5
DRMT 5R0 125			1.2	$\leq 0.150$	16.5 X 8.0 X 21.0	5.2/12.5
DRMT 5R0 255			2.5	$\leq 0.120$	20.5 X 10.0 X 21.0	5.3
DRMT 5R0 355			3.5	$\leq 0.100$	20.5 X 10.0 X 26.0	5.3
DRMT 5R0 505			5.0	$\leq 0.080$	20.5 X 10.0 X 31.0	5.3
DRMT 5R0 755			7.5	$\leq 0.060$	25.5 X 12.5 X 26.0	7.0

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