

# HE2 Series

Low ESR, high ripple current

Load life of 2000 hours at 105°C

Radial, Voltage Range 2.5V~25VDC

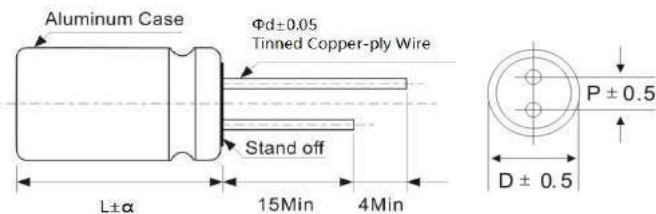
RoHS Compliant



## Specifications

Items	Characteristics												
Category													
Temperature Range	-55 ~ +105°C												
Rated Voltage Range	2.5 ~ 25V												
Capacitance tolerance	±20%(M) (at 20°C,120Hz)												
Leakage Current	Less than or equal to the specified value. After 2 minutes application of rated Voltage at 20°C, I≤0.2CV or 500µA (MAX)												
Dissipation Factor(tanδ)	Rated voltage (V)	2.5	4	6.3	6.8	7.5	10	12	16	20	25	(at 20°C,120Hz)	
	tanδ (Max.)	0.08						0.12					
Low Temperature Characteristics (Max.Impedance Ratio)	Z(-25°C)/Z(+20°C)	≅ 1.25						(100KHz)					
	Z(-55°C)/Z(+20°C)	≅ 1.25											
Endurance	The specifications listed below shall be satisfied when the capacitors are restored to 20°C after application of rated voltage for 2000 hours at 105°C.												
	Appearance	No significant damage											
	Capacitance change	≅ ±20% of the initial value											
	D.F.(tanδ)	≅ 150% of the specified value											
	ESR	≅ 150% of the specified value											
	Leakage current	≅ The specified value											
Damp Heat (Steady State)	The specifications listed below shall be satisfied when the capacitors are restored to 20°C after application of rated voltage for 1000 hours at 60°C,90%~ 95% RH.												
	Appearance	No significant damage											
	Capacitance change	≅ ±20% of the initial value											
	D.F.(tanδ)	≅ 150% of the specified value											
	ESR	≅ 150% of the specified value											
	Leakage current	≅ The specified value											
Surge Voltage	Surge Voltage=Rated voltage × 1.15(V) The capacitors shall be subjected to 1000 cycles each consisting of charge with the surge voltages specified at 105°C for 30 seconds through a protective resistor (Rc=1kΩ) and discharge for 5 minutes 30 seconds												
	Appearance	No significant damage											
	Capacitance change	≅ ±20% of the initial value											
	D.F.(tanδ)	≅ 150% of the specified value											
	ESR	≅ 150% of the specified value											
	Leakage current	≅ The specified value											

## Dimensions (mm)



ΦD	5	6.3	8	10
P	2.0	2.5	3.5	5.0
Φd	0.5	0.6	0.6	0.6

α	(L < 16)1.0
	(16 ≦ L < 22)1.5
	(L ≧ 22)2.0