



NESSCAP® Ultracapacitor Products

Features

- EDLC (Electric Double Layer Capacitor)
- Threaded terminals
- Ultra low internal resistance
- Highest power performance available



Product & Spec.

Rated Capacitance (F)	Internal Resistance (mΩ)		Max. Current (A)	Leakage Current (mA)	Stored Energy (Wh)	Specific Energy (Wh/kg)	Nominal Weight (g)	Part Number
Discharge with constant current at 25°C	AC(100Hz)	DC	1 sec discharge rate to 1/2V _R	72hours, 25°C	at V _R	Gravimetric		
650	< 0.50	< 0.60	610	< 1.50	0.658	3.13	210	ESHSR-0650C0-002R7A5T
1200	< 0.40	< 0.48	1,000	< 2.70	1.215	4.26	285	ESHSR-1200C0-002R7A5T
1600	< 0.34	< 0.41	1,270	< 3.00	1.620	4.76	340	ESHSR-1600C0-002R7A5T
2000	< 0.28	< 0.33	1,580	< 4.20	2.025	5.13	395	ESHSR-2000C0-002R7A5T
3000	< 0.22	< 0.26	2,210	< 5.20	3.038	5.68	535	ESHSR-3000C0-002R7A5T

Rated Voltage, V _R	2.7 V	
Surge Voltage	2.85 V	
Capacitance Tolerance	0% / +20%	
Operating Temperature Range	-40 ~ 65 °C	ΔCAP < 5% and ΔESR < 150% of initial value measured at 25°C
Storage Temperature Range	-40 ~ 70 °C	
Life Time at RT ⁽¹⁾	10 years	(1) ΔCAP < 30% and ΔESR < 150% of specified value, respectively and LC < specified value (2) Cycled between rated voltage and half rated voltage under constant current at 25°C
Cycle Life (25°C) ⁽¹⁾⁽²⁾	1,000,000 cycles	

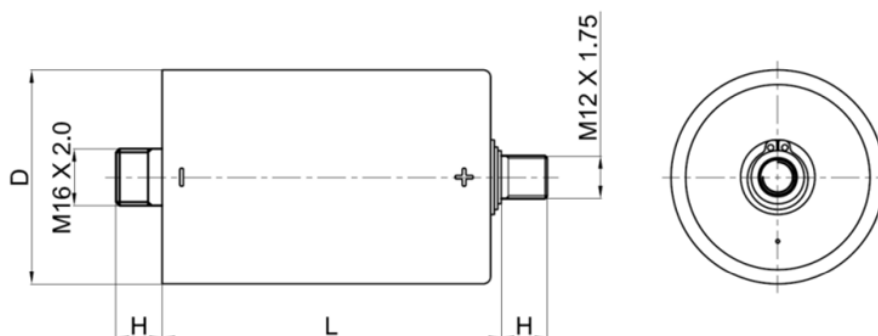
* Life time is provisional value

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ISO 9001, ISO 14001, TS 16949

Dimensions



Part Number	Capacitance (F)	Dimension (mm)		
		D (± 0.2)	L (± 0.3)	H (± 0.125)
ESHSR-0650C0-002R7A5T	650	60.2	52.5	13.0
ESHSR-1200C0-002R7A5T	1200	60.2	75.0	13.0
ESHSR-1600C0-002R7A5T	1600	60.2	86.0	13.0
ESHSR-2000C0-002R7A5T	2000	60.2	103.0	13.0
ESHSR-3000C0-002R7A5T	3000	60.2	139.0	13.0