

Film Capacitors for Power Electronics

For DC Filter, SH Type, Safety mechanism Dry type

NEW

ER Series

Maintenance free, long life capacitor features safety mechanism
 Dry type designed for small size (Industry's smallest size*) *Based on Nichicon research, Oct. 2013



Features

- Oilless for a better environment
- Resin-molded type with safety mechanism (Aluminum case)
- Maintenance-free (Long life, high reliability)

Applications

- Industrial equipment, Inverter smoothing circuit
- Railway-car, Motor control devices, Power conversion equipment
- Environment related equipment (Wind and Solar power systems)

Specifications

Item		Performance Characteristics
Installation location		For use indoor and/or outdoor applications when used in an enclosed environment
Lowest operating temperature		-40°C
Maximum operating temperature		+85°C *1
Capacitance tolerance		±10% at 20°C
Voltage test	Between terminals	Rated Voltage × 1.5VDC at 10 seconds, 20°C
	Between terminals and case	Rated Voltage × $\frac{2}{\sqrt{2}}$ +1000 (minimum 2000) VAC at 10 seconds, 20°C
Capacitor losses		Less than 0.2% at 120Hz
Reference standards		JEM 1419 (2000) (Power electronic capacitors) / IEC 61071 (2007)

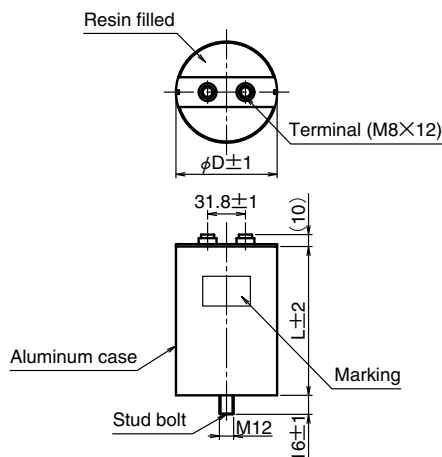
In addition, the standard is based on JEM 1419 (Power electronic capacitors) / IEC 61071.
 ※If using the product outside the specifications mentioned above, please contact your local Nichicon sales office.

Standard ratings

Rated voltage (VDC)	Capacitance (μF)	Part Number	Dimensions (mm)		Maximum current (Arms) at 5kHz
			φD	L	le
750	700	ER751701DD1	85	125	40
1100	420	ER112421DD1	85	125	40
1300	260	ER132261DD1	85	125	32
1500	180	ER152181DD1	85	125	27

Other values are available so please contact your local Nichicon sales office for availability.

Drawing



* 1

Part Number	Maximum current (Arms) at 5kHz	Maximum operating temperature
ER751701DD1	10 Arms	85°C
	40 Arms	70°C
ER112421DD1	10 Arms	85°C
	40 Arms	70°C
ER132261DD1	8 Arms	85°C
	32 Arms	70°C
ER152181DD1	6 Arms	85°C
	27 Arms	70°C

Design, Specifications are subject to change without notice.