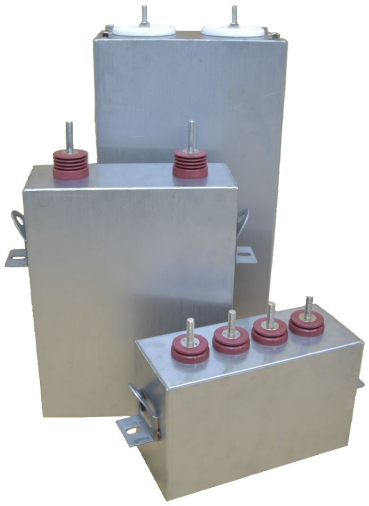
Capacitors for Power Electronics

DC-link Capacitors

Series ***ESDS***

Dry type, Metallized film, Energy density up to 0.25J/cc



Applications

Electro-transport, substations, windmills, frequency converters, etc.

General

The ESDS series capacitors are specifically designed for DC circuit. The capacitor has low losses and elements are made by self-healing metallized polypropylene film with dry technology. The special composition of polymeric dielectric enables to reach high dielectric strength in the temperature range up to +85°C. The capacitors have excellent operating current and lifetime.

Characteristics

Standard	IEC61071, IEC 61881
Capacitance tolerance	±10% (optional ±5%)
Rated DC Voltage	900V to 40kV
Dielectric	Polypropylene
Tangent of the loss angle	< 0.1%
Self-inductance (ESL)	< 100nH
Test voltage between terminals	1.5xUn / 10s at 25±5°C
Test voltage between terminals and case	2xUn+1000VAC / 60s at 60Hz 25±5°C
Operating temperature	-40°C / +70°C (optional 85℃)
Storage temperature	-40°C / +85°C
Case	Rectangular non-magnetic stainless steel
Filling material	Epoxy resin (RoHS complied)
Failure rate	< 100FIT
Lifetime Expectancy	> 100000h
Cooling method	Natural

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Specification and Dimensions

Un DC	uF	L	W	H	Weight kg
900	4000	340	125	215	11.1
	8000		125	340	18.2
	16000		175	430	29.7
	24000		175	580	40.4
1200	2000		125	215	11.0
	4000		125	380	20.5
	8000		125	650	35.5
	12000		175	670	47.3
2000	1000		125	270	14.0
	2000		125	440	23.3
	4000		175	580	40.7
	5000		175	700	49.4
4000	200		125	240	12.4
	400		125	400	21.4
	800		175	500	35.2
	1000		175	580	40.7
5000	150		125	285	14.8
	300		140	430	24.6
	600		175	540	38.2
	750		175	650	46.3

Un DC	uF	L	W	H	Weight kg
5500	100	340	140	215	11.6
	200	340	140	360	20.4
	400	340	175	470	32.5
	600	340	175	650	45.4
6500	200	340	185	330	24.1
	400	530	185	400	42.9
	600	530	185	550	59.9
	800	530	185	710	78.4
10000	50	340	185	220	15.3
	100	340	185	380	28.0
	200	530	185	470	54.4
	300	530	185	660	77.8
20000	10	340	185	240	17.2
	20	530	185	280	31.1
	40	530	185	490	57.4
	60	530	185	690	82.3
40000	2	340	185	300	21.8
	4	340	185	490	36.1
	6	530	185	400	46.3
	10	530	185	570	66.9

Capacitors for Power Electronics

(Reference Dimensions)

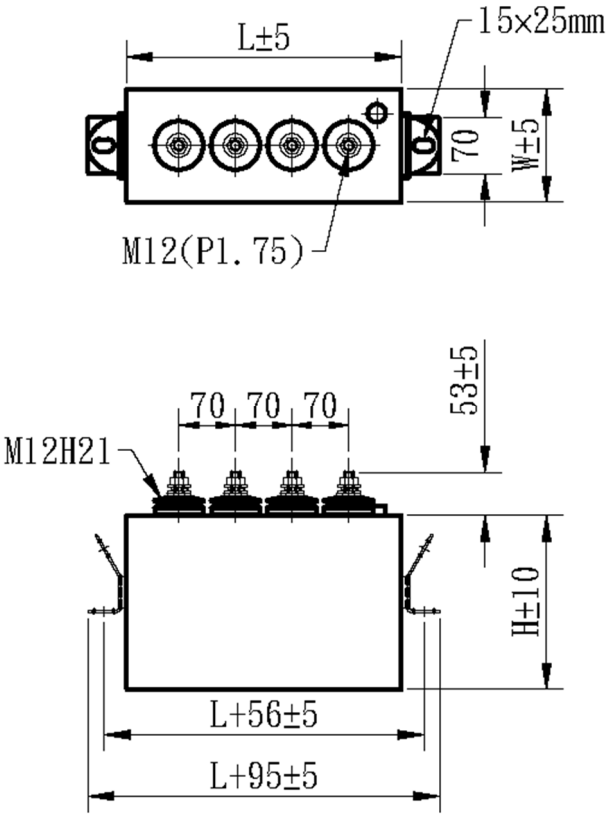

Fig-1

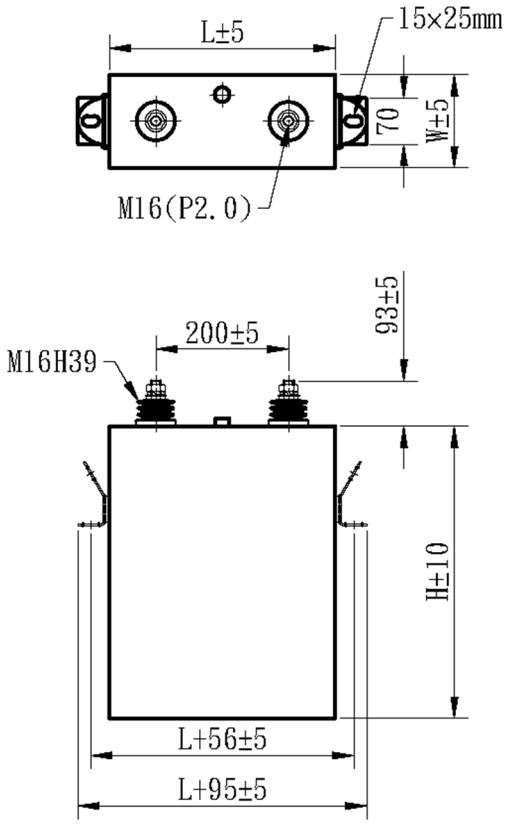

Fig-2

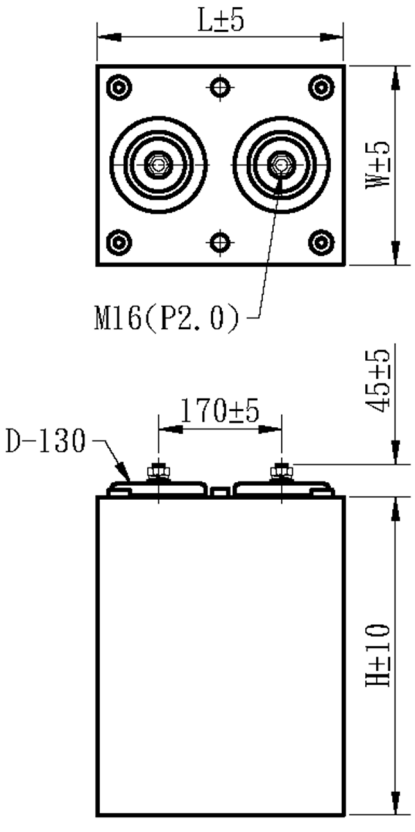

Fig-3