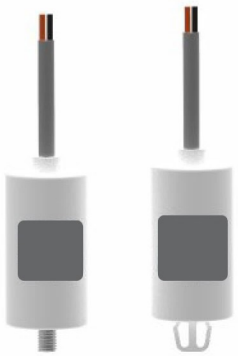
AC Motor Capacitor

plasctic casing Series **CBB65** (S3,A,B,C级)



Features & Applications

- Low loss,high insulation resistance.
- Self-healing and high stablity.
- Small volume and high withstand voltage.
- Segmant film structure safety class S3
- Applicable to startup and operating of the refrigerator compressor .

Technical Parameter

Rated voltage	250Vac~450Vac
Dissipation factor	tan δ ≤0.002(100Hz)
Climatic category	40/85/21
Testing voltage	T-T:2U_N/2s T-C:≥2200Vac/2s
Operation class	B/C

Range of capacitance	2μF~20μF
Insulation resistance	≥5000s(20℃, 500V, 1min)
Operating frequency	50/60Hz
Safety class	S3

02188559834 Sales1@hadiban.com hadibanelectronic.com

AC Motor Capacitor

Cable Type **CBB65-A** (S2,A,B,C级)

Features & Applications

- Low loss,high insulation resistance.
- Excellent self-healing and high stablity.
- Small volume and withstand high voltage.
- Built-in explosion-proof device, reliable safety performance.
- Applicable to startup and operating of the compressor of air-conditioning and refrigerator.

Technical Parameter

Rated voltage	250Vac~450Vac
Dissipation factor	tan δ ≤0.002(100Hz)
Climatic category	40/85/21
Testing voltage	T-T:2U_N/2s T-C:≥2200Vac/2s
Operation class	A/B/C

Range of capacitance	(1+0) μF~(75+15) μF,80 μF~100 μF
Insulation resistance	≥5000s(20℃, 500V, 1min)
Operating frequency	50/60Hz
Safety class	S2

02188559834 Sales1 @ hadiban.com hadibanelectronic.com

AC Motor Capacitor

Terminal Type **CBB65-A** (S2,A,B,C级)

Features & Applications

- Low loss,high insulation resistance.
- Excellent self-healing and high stablity.
- Small volume and withstand high voltage.
- Built-in explosion-proof device, reliable safety performance.
- Applicable to startup and operating of the compressor of air-conditioning and refrigerator.

Technical Parameter

Rated voltage	250Vac~450Vac
Dissipation factor	tan δ ≤0.002(100Hz)
Climatic category	40/85/21
Testing voltage	T-T:2U_N/2s T-C:≥2200Vac/2s
Operation class	A/B/C

Range of capacitance	(1+0) μF~(75+15) μF,80 μF~100 μF
Insulation resistance	≥5000s(20℃, 500V, 1min)
Operating frequency	50/60Hz
Safety class	S2

02188559834 Sales1 @ hadiban.com hadibanelectronic.com

AC Motor Starting Capacitor

Aluminum Casing Series **CBB65-B** (S2)

Features & Applications

- Low loss,high insulation resistance.
- Excellent self-healing and high stablity.
- Small volume and high withstand voltage.
- Built-in explosion-proof device, reliable safety performance.
- Applicable to start of air-conditioning and refrigerator.

Technical Parameter

Rated voltage	160Vac~330Vac
Dissipation factor	tan δ ≤0.005(100Hz)
Climatic category	40/85/21
Testing voltage	T-T:1.2U_N/2S
Ratde working cycle	1min/1.67%

Range of capacitance	20μF~280μF
Insulation resistance	≥5000s(20℃, 500V, 1min)
Operating frequency	50/60Hz
Safety class	S2

02188559834 Sales1 @ hadiban.com hadibanelectronic.com

AC Motor Capacitor

Aluminum Casing Series **CBB65-C** （S3,A,B,C级）

Features & Applications

- Low loss,high insulation resistance.
- Self-healing and high stablity.
- Small volume and high withstand voltage.
- Segmant film structure safety class S3
- Applicable to startup and operating of the refrigerator compressor .

Technical Parameter

Rated Voltage	250Vac~450Vac
Dissipation Factor	tan δ ≤0.002(100Hz)
Climatic Category	40/85/21
Testing Voltage	T-T:2U_N/2s T-C:≥2200Vac/2s
Operation Class	B/C

Range Of Capacitance	2μF~20μF
Iusulation Resistance	≥5000s（20℃，500V，1min）
Operating Frequency	50/60Hz
Safety Class	S3

02188559834 Sales1 @ hadiban.com hadibanelectronic.com

AC Motor Capacitor CBB61 (S0,B,C级)

Features & Applications

- Low loss,high insulation resistance.
- Excellent self-healing, high stablity.
- Able to withstand impulse current, strong over-load capacity.
- Using flame-retartant rectangle plastic shell, full-sealed structure and potted with epoxy resin.
- Applicable to electric fan, ventilator and electric water pump and facilitate and help for the startup and operating of the motor.

Technical Parameter

Rated voltage	450Vac	Range of capacitance	1μF~35μF
Dissipation factor	tan δ ≤0.002(100Hz)	Insulation resistance	≥3000s(20℃, 100V, 1min)
Climatic category	40/70/21	Operating frequency	50/60Hz
Testing voltage	T-T:2U_R/2S	Safety class	S0
Operation class	B/C		

02188559834 Sales1 @ hadiban.com hadibanelectronic.com

AC Motor Capacitor

Safety Class **CBB61-A** （S3,B级）

Features & Applications

- Low loss,high insulation resistance.
- Excellent self-healing, high stablity.
- Using flame-retartant rectangle plastic shell, full-sealed structure and potted with epoxy resin.
- Explosion-proof structure with segment film, reliable safety performance.
- Applicable to electric fan, ventilator and electric water pump and facilitate and help for the startup and operating of the motor.

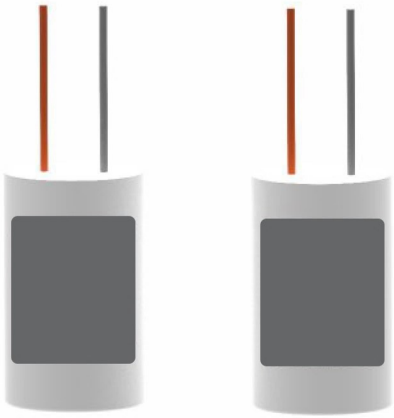
Technical Parameter

Rated voltage	450Vac
Dissipation factor	tan δ ≤0.002(100Hz)
Climatic category	40/85/21
Testing voltage	T-T:2U_N/2S
Operation class	B

Range of capacitance	0.5 μ F~20 μ F
Insulation resistance	Rc≥3000MΩ·μF (20℃, 1min, 100Vdc)
Operating frequency	50/60Hz
Safety class	S3

02188559834 Sales1 @ hadiban.com hadibanelectronic.com

AC Motor Capacitor CBB60 （S0,C级）



Features and applications

- Low loss, high insulation resistance.
- Excellent self-healing and high stablity.
- Able to withstand impulse current and strong over-load capacity.
- Applicable to washing machine and fractional horsepower motor and facilitate and help for the startup and operating of the motor.

Technical Parameter

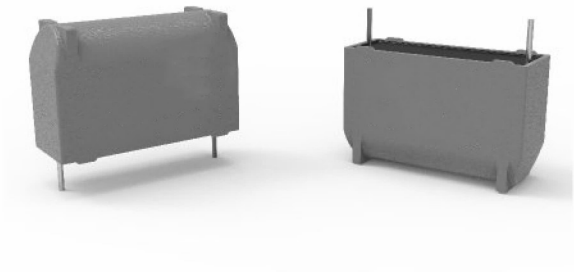
Rated voltage	450Vac
Dissipation factor	tan δ ≤0.002(100Hz)
Climatic category	40/70/21
Testing voltage	T-T:2U_N/2S T-C:≥2500Vac/2s

Range of capacitance	1μF~50μF
Insulation resistance	Rc≥5 000MΩ·μF (20℃, 1min, 500Vdc)
Operating frequency	50/60Hz

02188559834 Sales1 @ hadiban.com hadibanelectronic.com

MKPH

Induction Heating Capacitor High-voltage Resonance Series



Features and applications

- Temperature resistance polypropylene film as dielectric.
- Internal series thickening type double sides metallized electrodes, non-inductive construction.
- DV/DT full test, automatic production.
- Good consistency and high stability.
- Speically apply to the high-frequency oscillation circuit of induction heating device.

Technical Parameter

Rated Voltage	1000Vdc~2000Vdc
Climatic Category	40/105/21
Range Of Capacitance	0.01μF~0.9μF

Capacitance Tolerance	± 5%(J), ± 10%(K)
Dissipation Factor	tan δ ≤0.0007(10KHz)
Voltage Rise Rate(dv/dt)	500V/μs Max

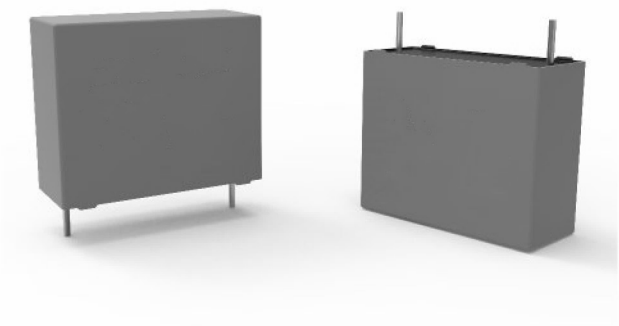
02188559834 Sales1 @ hadiban.com hadibanelectronic.com

EMI Capacitor (Interference Suppression)

MKP-X2

Features & Applications

- Metallized polypropylene(MPP) film as dielectric.
- Thickening metallized terminals and automatic spray welding technology .
- Flame retartant PBT case (UL94V-0), fliing with epoxy resin.
- High capability of withstand high voltage and transient pulse voltage.
- Widely used in power supply parallel crossover loops to control electromagnetic interference.



Technical Parameter

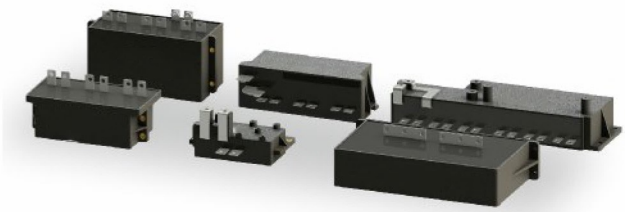
Rated voltage	275Vac~310Vac
Dissipation factor	≤0.001(1KHz)
Climatic category	40/110/56/B
Capacitance tolerance	± 10%(K)、± 20%(M)(20℃, 1kHz)

Range of capacitance	0.0047 μ F~22 μ F
Insulation resistance	C_R≤0.33μF, IR≥15 000 MΩ C_R>0.33μF, τ≥5 000MΩ·μF (20℃, 100V, 1min)
Voltage rise rate(dv/dt)	30V/ μ s Max

02188559834 Sales1 @ hadiban.com hadibanelectronic.com

Film Capacitor For New Energy Vehicle

YHB



Features & Applications

- Applicable to DC filter circuits.
- Low equivalent series resistance and able to withstand high ripple current.
- Able to withstand impacting of high-peak current.
- Low self-inductance.
- Suit for a wide range of application because of the product's temperature, long service life.
- High-temperature resistant metallized PP film, excellent self-healing performance.
- Insulated housing, potted with thermal conductive resin, the flame retartant level reaches UL94V-0.
- Applicable to high power electronic devices used as filtering or energy storage.
- Vehicles: eg.:electromobile and hybrid power vehicle.
- Welding equipment, elevator, motor driving.
- Variable speed drive (drive and traction).

Technical Parameter

Climatic category	40/105/56
Working temperature	-40℃ ~ +105℃
(Under +85℃ ~ +105℃,temperature increased by one degree, voltage reduced 1.35U_N) [Θmax(hotspot)≤+105℃]	
Storage temperature	-40℃ ~ +105℃
Rated voltage	400Vdc ~ 900Vdc
Range of capacitance	280 μ F ~ 1800 μ F
Allowable capacitance deviation	± 5%(J), ± 10%(K)
Voltage test between terminals	1.5U_N (10s,25℃ ± 5℃)
Voltage test between terminals and case	3000Vac (60s,50/60Hz,25℃ ± 5℃)
Dielectric dissipation factor	2×10^{-4}
Over-voltage	1.1U_N (30% of on-load-dur)
	1.15U_N (30min/day)
	1.2U_N (5min/day)
	1.3U_N (1min/day)
	1.5U_N (30ms every time,1000times)

Time constant	≥10 000s (25℃ ± 5℃,500V)
Equivalent series resistance	0.1~1.0mΩ(10kHz)
Self inductance	5nH ~ 40nH
Maximum ripple current	50A ~ 300A
Maximum peak current	2kA ~ 8kA
Loss of efficiency	50 FIT
Maximum application altitude	2000m
Maximum working humidity	65℃,93% RH
Maximum terminal torque	4.5Nm
Maximum installation torque	8.5Nm
Potting material	Thermal conductive resin
Material of case	PPS
Outline dimension	According to customer's requests
YHK	
Life expectancy reference curve refers to YHK	

02188559834 Sales1 @ hadiban.com hadibanelectronic.com

Film Capacitor For New Energy Vehicle

YHF

Features & Applications

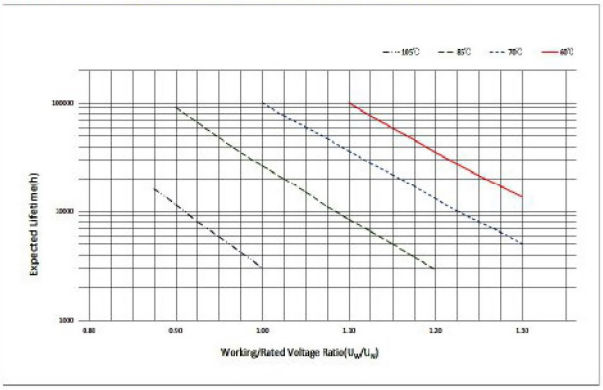
- High-temperature resistant PP film as dielectric , thickening metallized electrodes, no inductance winding structure.
- Plastic housing, potted with the thermally conductive epoxy resin.
- Small product size and excellent heat dissipation.
- Using tinned copper terminals as a lead.
- Low self-inductance and equivalent series resistance.
- Strong ability for withstanding impacting of current.
- Widely applicable to DC filter circuits and ideal to instead of electrolytic capacitor.
- Electromobile and hybrid power vehicle.
- Motor driving, welding equipment and elevator.

Technical Parameter

Climatic category	40/85/56, 40/105/56
Working temperature	-40℃ ~ +85℃/105℃
(Under +85℃ ~ +105℃,temperature increased by one degree, voltage reduced 1.35U_N) [θmax(hotspot)≤+85℃/105℃]	
Storage temperature	-40℃ ~ +85℃/105℃
Rated voltage	400Vdc ~ 1500Vdc
Range of capacitance	35 μF ~ 600 μF
Allowable capacitance deviation	± 5%(J), ± 10%(K)
Voltage test between terminals	1.5U_N (10s,25℃ ± 5℃)
Voltage test between terminals and case	4000Vac (60s,50/60Hz,25℃ ± 5℃)
Dielectric dissipation factor	2×10^{-4}
Over-voltage	1.1U_N (30% of on-load-dur)
	1.15U_N (30min/day)
	1.2U_N (5min/day)
	1.3U_N (1min/day)
	1.5U_N (30ms every time,1000times)

Time constant	≥5000s(100Vdc, 25℃ ± 5℃)
Maximum terminal torque	M5:2.5NmM8:6.0Nm
Maximum installation torque	3.0Nm
Loss of efficiency	100 FIT

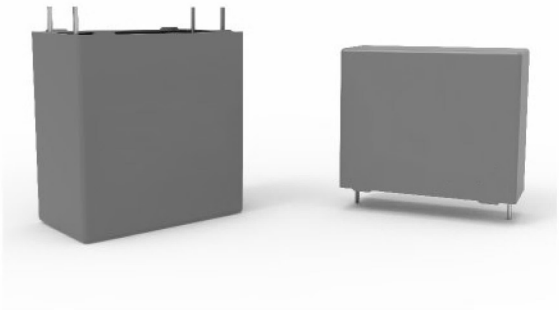
Life expectancy reference curve



02188559834 Sales1 @ hadiban.com hadibanelectronic.com

PCB用DC-Link
DC-Link Capacitor For PCB

YHK



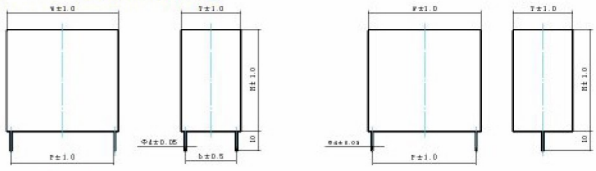
Features & Applications

- High-temperature resistant safety PP film as dielectric no inductance winding structure.
- Excellent electrical performance.
- Plastic housing (UL94-V0), potted with epoxy resin.
- Low inductance,Long service life.
- DC-Link circuits and instead of electrolytic capacitor.
- Medium and low power solar power inverter.
- Vehicles: eg.:electromobile and hybrid power vehicle.
- The converter of frequency conversion household appliance, central air-conditioning and commercial air-conditioning.
- Welding equipment, elevator equipment, industrial motor driving, high-level power supply, etc.

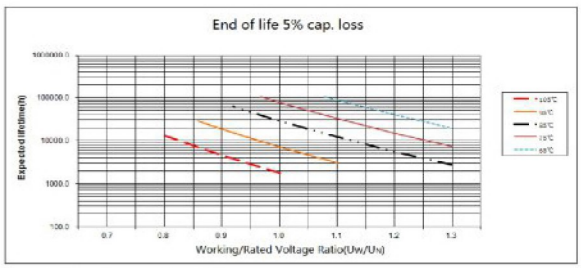
Technical Parameter

Climatic category	40/85/56、40/105/56
Working temperature	-40℃～+105℃
(+85℃～+105℃使用，温度每升高1℃，电压降低1.35%U_N)	
(Under +85℃～+105℃,temperature increased by one degree, voltage reduced 1.35%U_N)	
Storage temperatu	-40℃～+105℃
Rated voltage	400Vdc~1000Vdc @85℃
	500Vdc~1200Vdc @70℃
Allowable capacitance deviation	±5%(J), ±10%(K)
Voltage test between terminals	1.5U_N
	(10s,25℃±5℃)
Voltage test between terminals and case	3000Vac
	(60s,50Hz,25℃±5℃)
Dielectric dissipation factor	2×10^{-4}
Over-voltage	1.1U_N (30% of on-load-dur)
	1.15U_N (30min/day)
	1.2U_N (5min/day)
	1.3U_N (1min/day)
	1.5U_N (30ms every time,1000times)
Self inductance	<1nH per mm of lead spacing
Maximum peak current	Ip max=CN•dv/dt
Loss of efficiency	50 FIT
Maximum application altitude	2000m
Time constant	≥10 000s (25℃,100V,60s)
Expected service life	100 000 h(U_N, 70℃)

Outline drawing



Life expectancy reference curve



02188559834 Sales1 @ hadiban.com hadibanelectronic.com

Dry Type DC-filter Capacitor

YHA

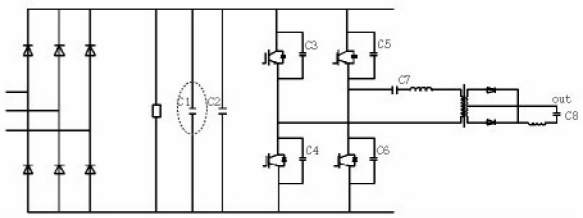
Features & Applications

- High-temperature resistant PP film as dielectric , thickening metallized electrodes, no inductance winding structure.
- Aluminum housing, potted with thermally conductive resin.
- Low equivalent series resistance and able to withstand high ripple current.
- Able to withstand impacting of high-peak current.
- Low self-inductance, long service life.
- Applicable to DC filter circuits used as filtering or energy storage and ideal to instead of electrolytic capacitor.
- Frequency converters of wind power and solar power.
- High voltage frequency converters, SVC, SVG, etc.

Technical Parameter

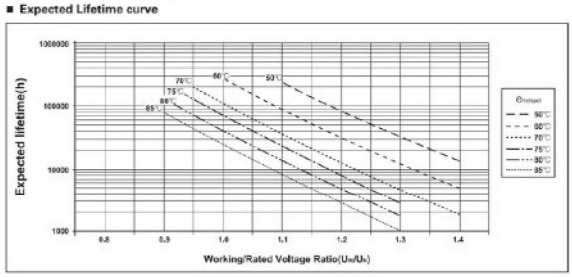
Norms reference	IEC 61071, GB/T 17702
Climatic category	40/75/56,40/80/56,40/85/56
Working temperature	-40℃~75/80/85℃
	ϕ76~96 [Θmax(hotspot)≤+85℃]
	ϕ116 [Θmax(hotspot)≤+80℃]
	ϕ136 [Θmax(hotspot)≤+75℃]
Storage temperature	-40℃ ~ +85℃
Rated voltage	600Vdc～2000Vdc
Range of capacitance	90μF~5600μF
Allowable capacitance deviation	±5%(J), ± 10%(K)
Voltage test between terminals	$1.5U_N$ (10s,25℃ ± 5℃)
Voltage test between terminals and case	$2U_N$
+1kVac or 3kVac take the higher one, (60s,50Hz,25℃ ± 5℃)	
Dielectric dissipation factor	2×10^{-4}
Over-voltage	$1.1U_N$ (30% of on-load-dur)
	$1.15U_N$ (30min/day)
	$1.2U_N$ (5min/day)
	$1.3U_N$ (1min/day)
	$1.5U_N$ (30ms every time,1000times)
Loss of efficiency	100 FIT
Maximum terminal torque	6Nm
Maximum installation torque	10Nm

Typical circuit



Life expectancy reference curve

■ Expected Lifetime curve



02188559834 Sales1 @ hadiban.com hadibanelectronic.com

One-phase Self-healing Type Shunt Power Capacitor

YHC

Features

- Metallized polypropylene film with high performance.
- Cylindrical extruded aluminum case, compact integrated structure.
- Optional dry filled, good anti-vibration performance and no leakage.
- Optional oil filled, less weight and better heat dissipation performance.
- Tightly sealed, good environment adaptability.
- Low dissipation factor, high pulse current withstand capability.
- Good self-healing and voltage withstand, high long term stability.
- Overpressure disconnector, more secure and reliable.
- Dust cover, or shock hazard protected terminals.

Applications

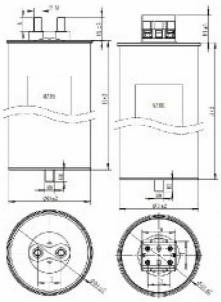
- Automatic PFC equipment, capacitor banks.
- Individual fixed PFC or Group fixed PFC.
- Tuned and detuned capacitor banks.
- Dynamic PFC.

Technical Parameter

Norms reference	GB/T 12747.1-2017 (idt IEC 60831-1:2014) GB/T 12747.2-2017(idt IEC 60831-2:2014)
Rated Voltage U_N	230 Vac ~ 850 Vac
Rated frequency f_N	50 or 60 Hz
Rated Power Q_N	5 kvar ~ 40 kvar
Connection Method	1 phase
Capacitance tolerance	-5% ~ +10% or ±10%, 0% ~ +5% or ±5%
Overvoltage U_{max}	$1.1U_N$: 8 h/d $1.15U_N$: 30 min/d $1.2U_N$: 5 min/d $1.3U_N$: 1 min/d
Overcurrent I_{max}	$1.3 \sim 2.0I_N$ Including combined effects of harmonics, overvoltage and capacitance tolerance)
Inrush Current I_s	Up to $300I_N$
Number of switching operations	Max. 10 000 switchings per year
Losses Dielectric Q_D Total Q_T	<0.2 W/kvar <0.5 W/kvar
Test voltage between terminals and case	$U_N \leq 500$ Vac: 3600 Vac 2 s $U_N > 500$ Vac: $2.4U_N+2400$ Vac 2 s
Test voltage between terminals	2.15 U_N, 2 s
Ambient temperature	Temperature class: -40/D Max. temp.: +55 ℃ Max. mean 24 h: +45 ℃ Max. mean 1 year: +35 ℃ Lowest temp.: -40 ℃
Maximum Humidity	95 %RH
Maximum altitude	2000 m
Cooling	Natural or forced cooled

Safety	自愈性和过压力断开Self-healing property andoverpressure disconnector
Dielectric	聚丙烯薄膜 Polypropylene film
Case	挤压圆柱形铝壳 Extruded cylindrical aluminum can
Terminals	螺栓或夹紧端子 Bolt or clamp terminals
Impregnation	聚氨酯或油 Polyurethane or oil
Mounting and grounding	外壳底部M12或M16螺栓Threaded M12 or M16 stud on bottom of case
Mounting position	室内，垂直向上 Indoors, vertically upright
Discharge device	可选内置、外置放电电阻或无放电电阻 Optional internal or external discharge resistor or without

Outline drawing



D	D1	M0*H0	A			B		
			M*H	H1	I	W*T	H1	I
76	81	M12*16	M6*15	27	30	45*44	36	30
			M8*17	29				
86	91	M12*16	M8*17	29	30	45*44	36	30
			M10*18	30				
96	101	M12*16	M8*17	29	30	45*44	36	30
			M10*18	30				
106	111	M12*16	M8*17	29	30	45*44	36	30
			M10*18	30				
116	121	M12*16	M8*17	29	30	45*44	36	30
		M16*25	M10*18	30				
126	131	M12*16	M8*17	29	30	45*44	36	30
		M16*25	M10*18	30				
136	141	M12*16 M16*25	M10*18	30	30	45*44	36	30

02188559834 Sales1 @ hadiban.com hadibanelectronic.com

Three-phase Self-healing Type Shunt Power Capacitor

YHD

Features

- Metallized polypropylene film with high performance.
- Cylindrical extruded aluminum case, compact integrated structure.
- Optional dry filled, good anti-vibration performance and no leakage.
- Optional oil filled, less weight and better heat dissipation performance.
- Tightly sealed, good environment adaptability.
- Low dissipation factor, high pulse current withstand capability.
- Good self-healing and voltage withstand, high long term stability.
- Overpressure disconnector, more secure and reliable.
- Dust cover, or shock hazard protected terminals.

Applications

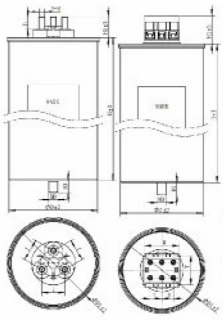
- Automatic PFC equipment, capacitor banks.
- Individual fixed PFC or Group fixed PFC.
- Tuned and detuned capacitor banks.
- Dynamic PFC.

Technical Parameter

Norms reference	GB/T 12747.1-2017 (idt IEC 60831-1:2014) GB/T 12747.2-2017(idt IEC 60831-2:2014)
Rated Voltage U_N	230 Vac ~ 850 Vac
Rated frequency f_N	50 or 60 Hz
Rated Power Q_N	5 kvar ~ 40 kvar
Connection Method	Three phase, delta (△) connection
Capacitance tolerance	−5% ~ +10% or ± 10%, 0% ~ +5% or ± 5%
Overvoltage U_{max}	$1.1U_N$: 8 h/d $1.15U_N$: 30 min/d $1.2U_N$: 5 min/d $1.3U_N$: 1 min/d
Overcurrent I_{max}	$1.3 \sim 2.0I_N$ Including combined effects of harmonics, overvoltage and capacitance tolerance)
Inrush Current I_s	Up to $300I_N$
Number of switching operations	Max. 10 000 switchings per year
Losses Dielectric Q_D Total Q_T	<0.2 W/kvar <0.5 W/kvar
Test voltage between terminals and case	$U_N \leq 500$ Vac: 3600 Vac 2 s $U_N > 500$ Vac: $2.4U_N+2400$ Vac 2 s
Test voltage between terminals	2.15 U_N, 2 s
Ambient temperature	Temperature class: −40/D Max. temp.: +55 ℃ Max. mean 24 h: +45 ℃ Max. mean 1 year: +35 ℃ Lowest temp.: −40 ℃
Maximum Humidity	95 %RH
Maximum altitude	2000 m
Cooling	Natural or forced cooled

Safety	Self-healing property andoverpressure disconnector
Dielectric	Polypropylene film
Case	Extruded cylindrical aluminum can
Terminals	千 Bolt or clamp terminals
Impregnation	Polyurethane or oil
Mounting and grounding	Threaded M12 or M16 stud on bottom of case
Mounting position	Indoors, vertically upright
Discharge device	Optional Internal or external discharge resistor or without

Outline drawing



D	D1	M0*H0	A			B		
			M*H	H1	I	W*T	H1	I
76	81	M12*16	M6*15 M8*17	27 29	30	45*44	36	15
86	91	M12*16	M8*17 M10*18	29 30	30	45*44	36	15
96	101	M12*16	M8*17 M10*18	29 30	30	45*44	36	15
106	111	M12*16 M16*25	M8*17 M10*18	29 30	35	45*44	36	15
116	121	M12*16 M16*25	M8*17 M10*18	29 30	35	45*44	36	15
126	131	M12*16 M16*25	M8*17 M10*18	29 30	35	45*44	36	15
136	141	M12*16 M16*25	M8*17 M10*18	29 30	35	45*44	36	15

02188559834 Sales1 @ hadiban.com hadibanelectronic.com

IGBT

IGBT Absorption Capacitor(Ground Strip)

YHJ

Features & Applications

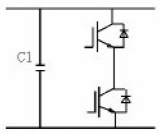
- Applicable to high voltage and high frequency pulse circuits.
- High-temperature resistant PP film as dielectric , no inductance winding structure.
- Solvent resistant plastic housing, potted with thermally conductive resin.
- Low equivalent series resistance and able to withstand high ripple current.
- Able to withstand impacting of high-peak current.
- Low capacitance loss, low self-inductance, low internal temperature.
- Long service life, excellent flame retartant property (level of UL94V-0)
- Suitable as the absorption capacitor of IGBT.

Technical Parameter

Norms reference	IEC 61071. GB/T 17702
Working temperature	-40℃ ~ +85℃
	[Θmax(hotspot)≤+85℃]
Storage temperature	-40℃～+85℃
Rated voltage	1000Vdc ~ 3000Vdc
Range of capacitance	0.047 μ F ~ 5μF
Allowable capacitance deviation	± 5%(J), ± 10%(K)
Voltage test between terminals	$1.5U_N$
	(10s,25℃ ± 5℃)

Voltage test between terminals and case	3000Vac
	(60s,50/60Hz,25℃ ± 5℃)
Dielectric dissipation factor	2×10^{-4}
Over-voltage	$1.5U_N$ applied to 10s at 25 ± 5℃
Expected service life	100000h(U_N, Θhotspot=70℃)

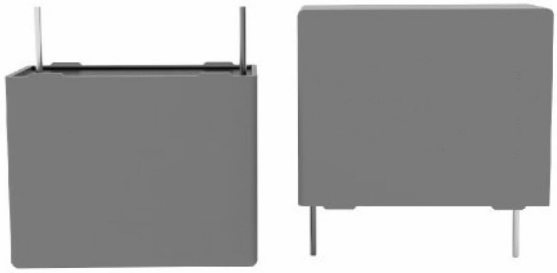
Typical circuit



02188559834 Sales1 @ hadiban.com hadibanelectronic.com

IGBT (PCB) YHG

IGBT Absorption Capacitor(PCB)



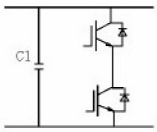
Features & Applications

- Applicable to high voltage and high frequency pulse circuits.
- High-temperature resistant PP film as dielectric , no inductance winding structure.
- Solvent resistant plastic housing, potted with thermally conductive resin.
- Low equivalent series resistance and able to withstand high ripple current.
- Able to withstand impacting of high-peak current.
- Low capacitance loss and self-inductance, low internal temperature.
- Long service life, excellent flame retartant property (level of UL94V-0)
- Suitable as the absorption capacitor of IGBT.

Technical Parameter

Norms reference	IEC 61071,GB/T 17702
Working temperature	-40℃ ~ +85℃
	[Θmax(hotspot)≤+85℃]
Storage temperature	-40℃～+85℃
Rated voltage	1000Vdc ~ 3000Vdc
Range of capacitance	0.047 μ F ~ 9μF
Allowable capacitance deviation	± 5%(J), ± 10%(K)
Voltage test between terminals	$1.5U_N$
	(10s,25℃ ± 5℃)
Voltage test between terminals and case	3000Vac
	(60s,50/60Hz,25℃ ± 5℃)
Dielectric dissipation factor	2×10^{-4}
Over-voltage	$1.5U_N$ (DC) applied to 10s at 20 ± 5℃
Expected service life	100 000h(U_N, Θhotspot=70℃)

Typical circuit



02188559834 Sales1 @ hadiban.com hadibanelectronic.com

YHH

Dry Type Absorption Capacitor

Features and Application

- Use high-temperature resistant PP film as dielectric, internal series type of metallized electrode , no inductance winding structure.
- Cylindrical plastic housing, potted with thermally conductive resin.
- Small product size, excellent heat dissipation.
- Use tinned copper terminals as a axial lead.
- Low self-inductance and equivalent series resistance.
- High withstand voltage, low capacitance loss and strong ability for withstanding impacting of current.
- Mainly used in power electronic equipments for absorption protection on the rectifying tube of the main rectifier device, thyristors and GTO.

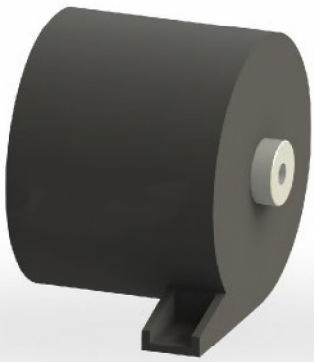
Technical Parameter

Norms reference	GB/T 17702. IEC 61071
Working temperature	-40℃ ~ +85℃
	[θmax(hotspot)≤+85℃]
Storage temperature	-40℃ ~ +85℃
Range of capacitance	0.5 μF ~ 2 μF
Allowable capacitance deviation	±5% (J) , ±10% (K)
Voltage test between terminals	$1.5U_N$—AC(10s,25℃±5℃)
	$2.5U_N$—DC(10s,25℃±5℃)
Voltage test between terminals and case	3000Vac
	(60s,50/60Hz,25℃±5℃)
Dielectric dissipation factor	2×10^{-4}
Over-voltage	$1.1U_N$ (30% of on-load-dur)
	$1.15U_N$ (30min/day)
	$1.2U_N$ (5min/day)
	$1.3U_N$ (1min/day)
Insulation resistance	≥10000MΩ(100Vdc,60s)
Expected service life	100 000 h(U_N, θhotspot=70℃)

02188559834 Sales1 @ hadiban.com hadibanelectronic.com

YHI

Dry Type Resonant Capacitor



Features and Application

- Use high-temperature resistant PP film as dielectric, thickening type double sides metallized electrodes, no inductance winding structure;
- Cylindrical plastic housing, potted with thermally conductive resin.
- Small product size, excellent heat dissipation
- Tinned copper terminals as a lead.
- Low self-inductance and equivalent series resistance.
- Strong ability for withstanding impacting of current.
- Widely applied to DC-filter and high-frequency current occasion.

Technical Parameter

Norms reference	GB/T 17702, IEC 61071
Working temperature	-40℃ ~ +85℃
	[Θmax(hotspot)≤+85℃]
Storage temperature	-40℃ ~ +85℃
Rated voltage	1000Vdc~1400Vdc
Range of capacitance	10 μ F ~ 50 μ F
Allowable capacitance deviation	±5% (J) , ±10% (K)
Voltage test between terminals	$1.5U_N$(10s,25℃±5℃)
Voltage test between terminals and case	3000VAC
	(60s,50/60Hz,25℃±5℃)

Dielectric dissipation factor	2×10^{-4}
Over-voltage	$1.1U_N$ (30% of on-load-dur)
	$1.15U_N$ (30min/day)
	$1.2U_N$ (5min/day)
	$1.3U_N$ (1min/day)
	$1.5U_N$ (30ms every time,1000times)
Insulation resistance	≥10 000s(100Vdc,60s)
Expected service life	100 000 h(U_N, Θhotspot=70℃)
Loss of efficiency	100 FIT

02188559834 Sales1 @ hadiban.com hadibanelectronic.com

High-voltage DC-filter Capacitor

YHE

Features & Applications

- Stainless steel housing, potted with flame retartant resin.
- Dry type and no leakage.
- Self-healing, using segmented metallized film.
- Low self-inductance and equivalent resistance.
- Able to withstand high ripple current.
- Applicable to DC-Link, variable speed drive (drive and traction), wind power converter, DC transmission project , rail traffic etc.

Technical Parameter

Norms reference	IEC 61071,IEC 61881-1
Working temperature	-40℃ ~ +70℃
	[Θmax(hotspot)≤+85℃]
Storage temperature	-40℃ ~ +70℃
Range of capacitance	80 μ F ~ 30000 μ F
Allowable capacitance deviation	± 5%(J), ± 10%(K)
Voltage test between terminals	$1.5U_N$ (10s, 25℃ ± 5℃)
Voltage test between terminals and case	($\sqrt{2}U_N$+1000)Vac
	(60s, 50/60Hz, 25℃ ± 5℃)

Dissipation factor	$\leq 2.0\times10^{-3}$
	(100Hz,25℃ ± 5℃)
Over-voltage	$1.1U_N$ (30% of on-load-dur)
	$1.15U_N$ (30min/day)
	$1.2U_N$ (5min/day)
	$1.3U_N$ (1min/day)
$1.5U_N$ (30ms every time,1000times during the whole life)	
Loss of efficiency	100 FIT
Insulation resistance	≥10000s(20℃,100Vdc,60s)
Expected service life	100000 h(U_N,70℃,|△C/C|≤5%)

02188559834 Sales1 @ hadiban.com hadibanelectronic.com

Low Voltage Shunt Capacitor

BKMJ

Features & Applications

- Use the high-performance metallized polypropylene film as the main dielectric material. Each component is equipped with a protection device to ensure safety and also can ensure itself to be separated from the circuit at the end of its life.
- As it's the dry type, there's no liquid leakage or environmental pollution.
- Excellent performance of self-healing.
- Small volume and light weight and easy for installation.

Technical Parameter

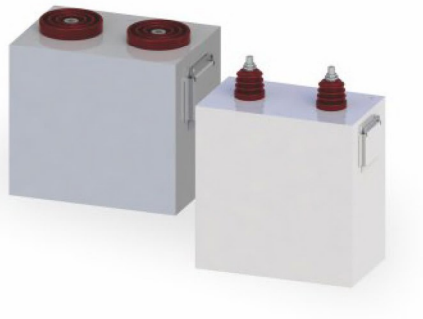
Norms reference	GB/T 12747.1,GB/T 12747.2 IEC60831-1,IEC60831-2
Working temperature	-25 ℃~50 ℃
Storage temperature	-25 ℃~50 ℃
Rated voltage	100Vac-1000Vac
Range of capacitance	5kvar ~60kvar
Allowable capacitance deviation	-5%~+10%
Dissipation factor	tan δ ≤0.0010(20℃ 50Hz)
Voltage test between terminals	$2.15U_N$(2s,25℃ ± 5℃)
Voltage test between terminals and case	$2U_N$ +2kVac or 3kVac take the higher one, (10s,25℃ ± 5℃)
Over-voltage	$1.10U_N$(8h/day)
Over current	$1.30\ I_N$

Output power(max)	$1.35\ Q_N$
Self-discharge	3min 75V
Maximum application altitude	2000m
Spacing between capacitors	≥50mm
Spacing between capacitor and wall	≥50mm
Operating frequency	50/60Hz
Connection mode	D,Y,YN
Terminal block	M6,M8.M10
Grounding terminal	M6
Material of case	Galvanized Steel Sheet
Anchor hole	Fixed Mounting Hole
Installation condition	Indoor

02188559834 Sales1 @ hadiban.com hadibanelectronic.com

High Voltage Pulse Capacitor

MKMJ



Features & Applications

- Metal housing with fully sealed, dry type.
- High-temperature resistant metallized PP film as dielectric.
- Self-healing, long service life, high reliabilty and able to withstand the impacting of instantaneous high current.
- Applicable to pulse power system's energy storage, strong magnetic field, LC oscillation circuit and other occasions.

Technical Parameter

Norms reference	JB/T 8168-1999
Working temperature	-25℃ ~ +40℃
Storage temperature	-25℃ ~ +40℃
Rated voltage	2kVdc ~ 50kVdc
Range of capacitance	2μF～8000μF
Allowable capacitance deviation	± 5%(J), ± 10%(K)
Voltage test between terminals	$1.1\sim1.5U_N$ (10s, 25℃ ± 5℃)
Voltage test between terminals and case	($\sqrt{2}U_N$+1000)Vac (10s, 50/60Hz, 25℃ ± 5℃)
Dissipation factor	≤2.0×10^{-3} (100Hz,25℃ ± 5℃)
Maximum application altitude	2000m
Maximum terminal torque	8Nm12Nm16Nm
Loss of efficiency	50FIT
Insulation resistance	≥5000s(20℃, 100Vdc, 60s)
Electrode terminal	M10*35M12*40M16*40
Expected service life	1000~10 0000次

02188559834 Sales1 @ hadiban.com hadibanelectronic.com

MMJ

High Voltage Pulse Capacitor

Features & Applications

- Insulated housing, dry type.
- High-temperature resistant metallized PP film as dielectric.
- Self-healing, long service life, high reliabilty and able to withstand the impacting of instantaneous high current
- Applicable for impulse voltage generator and other occasions.

Technical Parameter

Norms reference	JB/T 8168-1999
Working temperature	-25℃ ~ +40℃
Storage temperature	-25℃ ~ +40℃
Rated voltage	50kVdc ~ 100kVdc
Range of capacitance	0.1 μ F ~ 3 μ F
Allowable capacitance deviation	± 5% (J)
Voltage test between terminals	1.3~1.5U_N(10s,25℃ ± 5℃)

Dissipation factor	≤2.0 × 10^{-3} (100Hz,25℃ ± 5℃)
Maximum application altitude	2000m
Loss of efficiency	100FIT
Insulation resistance	≥5000s(20℃,100Vdc,60s)
Expected Service Life	2000~10 0000次

02188559834 Sales1 @ hadiban.com hadibanelectronic.com