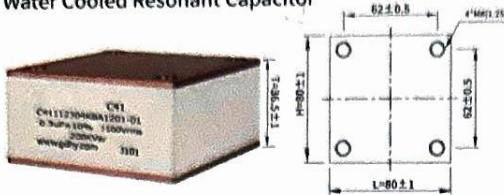


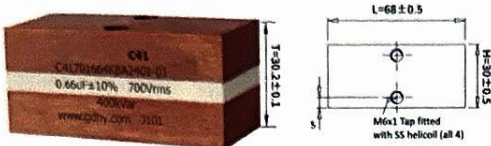
Power Electronic Film Capacitors

C41-BA1 Water Cooled Resonant Capacitor



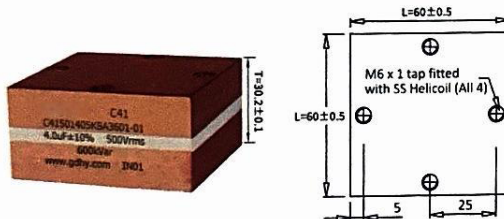
C41-BA1	Specifications
Reference Standards	GB/T 3984-2004 IEC 60110.1
Operating Temperature Range	-40°C~85°C
Capacitance Range	0.25μF~5μF
Rated Power	300kvar
Rated Voltage	400VAC~700VAC
Tolerance	±10%
Test Voltage Between Terminals	1.5UNac 10s 2~3.5UNdc 10s at 25°C±5°C
Dissipation Factor	$\tan\delta \leq 5 \times 10^{-4}$ at 25°C±5°C, 1kHz
Insulation Resistance	$R \cdot C \geq 3000s$, at 100VDC, 25°C±5°C, 60s
Life Expectancy	100000h at UN and 70°C, 30000h at Urms

C41-BA2 Water Cooled Resonant Capacitor



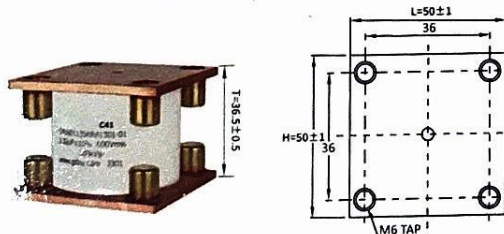
C41-BA2	Specifications
Reference Standards	GB/T 3984-2004 IEC 60110.1
Operating Temperature Range	-40°C~85°C
Capacitance Range	0.1μF~2.4μF
Rated Power	400kvar
Rated Voltage	500VAC~1000VAC
Tolerance	±10%
Test Voltage Between Terminals	1.5UNac 10s 2~3.5UNdc 10s at 25°C±5°C
Dissipation Factor	$\tan\delta \leq 5 \times 10^{-4}$ at 25°C±5°C, 1kHz
Insulation Resistance	$R \cdot C \geq 3000s$, at 100VDC, 25°C±5°C, 60s
Life Expectancy	100000h at UN and 70°C, 30000h at Urms

C41-BA3 Water Cooled Resonant Capacitor



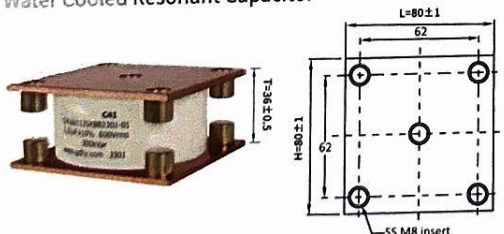
C41-BA3	Specifications
Reference Standards	GB/T 3984-2004 IEC 60110.1
Operating Temperature Range	-40°C~85°C
Capacitance Range	0.33μF~5μF
Rated Power	600kvar
Rated Voltage	500VAC~1000VAC
Tolerance	±10%
Test Voltage Between Terminals	1.5UNac 10s 2~3.5UNdc 10s at 25°C±5°C
Dissipation Factor	$\tan\delta \leq 5 \times 10^{-4}$ at 25°C±5°C, 1kHz
Insulation Resistance	$R \cdot C \geq 3000s$, at 100VDC, 25°C±5°C, 60s
Life Expectancy	100000h at UN and 70°C, 30000h at Urms

C41-BB1 Water Cooled Resonant Capacitor



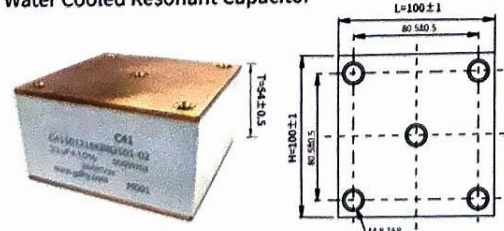
C41-BB1	Specifications
Reference Standards	GB/T 3984-2004 IEC 60110.1
Operating Temperature Range	-40°C~85°C
Capacitance Range	0.1μF~2.6μF
Rated Power	200kvar~300kvar
Rated Voltage	400VAC~1000VAC
Tolerance	±10%
Test Voltage Between Terminals	1.5UNac 10s 2~3.5UNdc 10s at 25°C±5°C
Dissipation Factor	$\tan\delta \leq 5 \times 10^{-4}$ at 25°C±5°C, 1kHz
Insulation Resistance	$R \cdot C \geq 3000s$, at 100VDC, 25°C±5°C, 60s
Life Expectancy	100000h at UN and 70°C, 30000h at Urms

C41-BB2 Water Cooled Resonant Capacitor



C41-BB2	Specifications
Reference Standards	GB/T 3984-2004 IEC 60110.1
Operating Temperature Range	-40°C~85°C
Capacitance Range	0.33μF~5μF
Rated Power	400kvar
Rated Voltage	500VAC~1000VAC
Tolerance	±10%
Test Voltage Between Terminals	1.5UNac 10s 2~3.5UNdc 10s at 25°C±5°C
Dissipation Factor	$\tan\delta \leq 5 \times 10^{-4}$ at 25°C±5°C, 1kHz
Insulation Resistance	$R \cdot C \geq 3000s$, at 100VDC, 25°C±5°C, 60s
Life Expectancy	100000h at UN and 70°C, 30000h at Urms

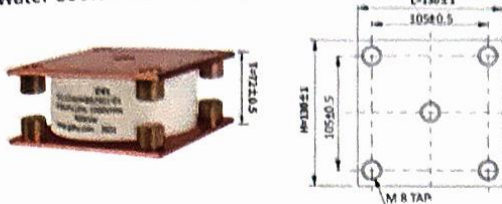
C41-BB3 Water Cooled Resonant Capacitor



C41-BB3	Specifications
Reference Standards	GB/T 3984-2004 IEC 60110.1
Operating Temperature Range	-40°C~85°C
Capacitance Range	6.5μF~40μF
Rated Power	400kvar
Rated Voltage	400VAC~600VAC
Tolerance	±10%
Test Voltage Between Terminals	1.5UNac 10s 2~3.5UNdc 10s at 25°C±5°C
Dissipation Factor	$\tan\delta \leq 5 \times 10^{-4}$ at 25°C±5°C, 1kHz
Insulation Resistance	$R \cdot C \geq 3000s$, at 100VDC, 25°C±5°C, 60s
Life Expectancy	100000h at UN and 70°C, 30000h at Urms

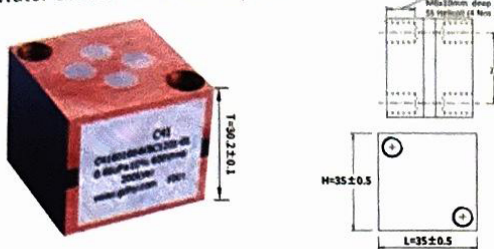
Power Electronic Film Capacitors

C41-BB4 Water Cooled Resonant Capacitor



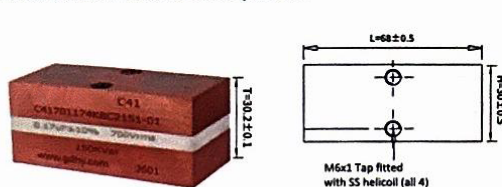
C41-BB4	Specifications
Reference Standards	GB/T 3984-2004 IEC 60110.1
Operating Temperature Range	-40°C~85°C
Capacitance Range	5μF~85μF
Rated Power	700kvar
Rated Voltage	500VAC-1000VAC
Tolerance	±10%
Test Voltage Between Terminals	1.5UNAC 10s 2~3.5UNDC 10s at 25°C±5°C
Dissipation Factor	$tg\delta \leq 5 \times 10^{-4}$ at 25°C±5°C, 1kHz
Insulation Resistance	$R \cdot C \geq 3000s$, at 100VDC, 25°C±5°C, 60s
Life Expectancy	100000h at UN and 70°C, 30000h at Urms

C41-BC1 Water Cooled Resonant Capacitor



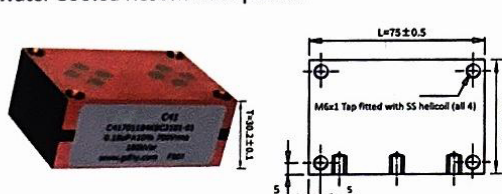
C41-BC1	Specifications
Reference Standards	GB/T 3984-2004 IEC 60110.1
Operating Temperature Range	-40°C~85°C
Capacitance Range	0.025μF~1.2μF
Rated Power	180kvar-200kvar
Rated Voltage	500VAC-1100VAC
Tolerance	±10%
Test Voltage Between Terminals	1.5UNAC 10s 2~3.5UNDC 10s at 25°C±5°C
Dissipation Factor	$tg\delta \leq 5 \times 10^{-4}$ at 25°C±5°C, 1kHz
Insulation Resistance	$R \cdot C \geq 3000s$, at 100VDC, 25°C±5°C, 60s
Life Expectancy	100000h at UN and 70°C, 30000h at Urms

C41-BC2 Water Cooled Resonant Capacitor



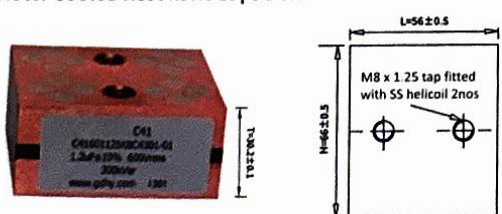
C41-BC2	Specifications
Reference Standards	GB/T 3984-2004 IEC 60110.1
Operating Temperature Range	-40°C~85°C
Capacitance Range	0.05μF~2.4μF
Rated Power	150kvar-200kvar
Rated Voltage	400VAC-1000VAC
Tolerance	±10%
Test Voltage Between Terminals	1.5UNAC 10s 2~3.5UNDC 10s at 25°C±5°C
Dissipation Factor	$tg\delta \leq 5 \times 10^{-4}$ at 25°C±5°C, 1kHz
Insulation Resistance	$R \cdot C \geq 3000s$, at 100VDC, 25°C±5°C, 60s
Life Expectancy	100000h at UN and 70°C, 30000h at Urms

C41-BC3 Water Cooled Resonant Capacitor



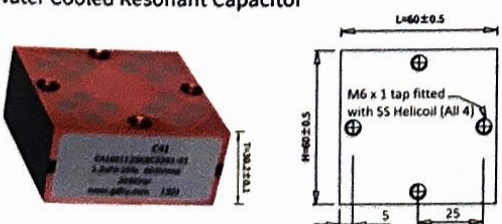
C41-BC3	Specifications
Reference Standards	GB/T 3984-2004 IEC 60110.1
Operating Temperature Range	-40°C~85°C
Capacitance Range	0.18μF~5μF
Rated Power	180kvar
Rated Voltage	400VAC-700VAC
Tolerance	±10%
Test Voltage Between Terminals	1.5UNAC 10s 2~3.5UNDC 10s at 25°C±5°C
Dissipation Factor	$tg\delta \leq 5 \times 10^{-4}$ at 25°C±5°C, 1kHz
Insulation Resistance	$R \cdot C \geq 3000s$, at 100VDC, 25°C±5°C, 60s
Life Expectancy	100000h at UN and 70°C, 30000h at Urms

C41-BC4 Water Cooled Resonant Capacitor



C41-BC4	Specifications
Reference Standards	GB/T 3984-2004 IEC 60110.1
Operating Temperature Range	-40°C~85°C
Capacitance Range	0.1μF~5μF
Rated Power	300kvar-400kvar
Rated Voltage	400VAC-1000VAC
Tolerance	±10%
Test Voltage Between Terminals	1.5UNAC 10s 2~3.5UNDC 10s at 25°C±5°C
Dissipation Factor	$tg\delta \leq 5 \times 10^{-4}$ at 25°C±5°C, 1kHz
Insulation Resistance	$R \cdot C \geq 3000s$, at 100VDC, 25°C±5°C, 60s
Life Expectancy	100000h at UN and 70°C, 30000h at Urms

C41-BC5 Water Cooled Resonant Capacitor

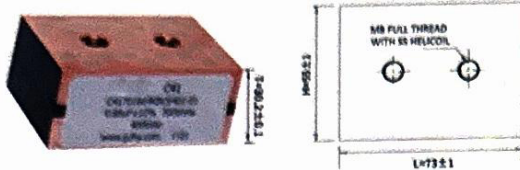


C41-BC5	Specifications
Reference Standards	GB/T 3984-2004 IEC 60110.1
Operating Temperature Range	-40°C~85°C
Capacitance Range	0.1μF~5μF
Rated Power	300kvar-400kvar
Rated Voltage	400VAC-1000VAC
Tolerance	±10%
Test Voltage Between Terminals	1.5UNAC 10s 2~3.5UNDC 10s at 25°C±5°C
Dissipation Factor	$tg\delta \leq 5 \times 10^{-4}$ at 25°C±5°C, 1kHz
Insulation Resistance	$R \cdot C \geq 3000s$, at 100VDC, 25°C±5°C, 60s
Life Expectancy	100000h at UN and 70°C, 30000h at Urms

Power Electronic Film Capacitors

C41-BC6

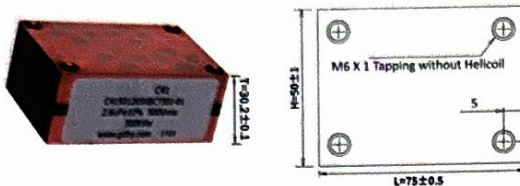
Water Cooled Resonant Capacitor



C41-BC6	Specifications
Reference Standards	GB/T 3984-2004 IEC 60110.1
Operating Temperature Range	-40°C~85°C
Capacitance Range	0.15μF~2μF
Rated Power	350kvar~400kvar
Rated Voltage	500VAC-1000VAC
Tolerance	±10%
Test Voltage Between Terminals	1.5UNAC 10s
Dissipation Factor	2~3.5UNDC 10s at 25°C±5°C
Insulation Resistance	$tg\delta \leq 5 \times 10^{-4}$ at 25°C±5°C, 1kHz
Life Expectancy	$R \cdot C \geq 3000s$, at 100VDC, 25°C±5°C, 60s 100000h at UN and 70°C, 30000h at Urms

C41-BC7

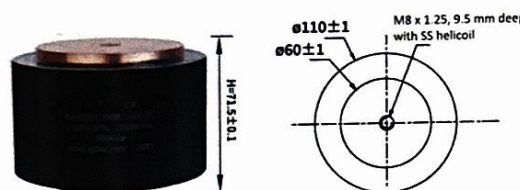
Water Cooled Resonant Capacitor



C41-BC7	Specifications
Reference Standards	GB/T 3984-2004 IEC 60110.1
Operating Temperature Range	-40°C~85°C
Capacitance Range	0.1μF~5μF
Rated Power	300kvar
Rated Voltage	400VAC-1000VAC
Tolerance	±10%
Test Voltage Between Terminals	1.5UNAC 10s
Dissipation Factor	2~3.5UNDC 10s at 25°C±5°C
Insulation Resistance	$tg\delta \leq 5 \times 10^{-4}$ at 25°C±5°C, 1kHz
Life Expectancy	$R \cdot C \geq 3000s$, at 100VDC, 25°C±5°C, 60s 100000h at UN and 70°C, 30000h at Urms

C41-BE1~3

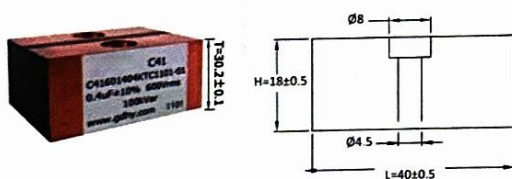
Water Cooled Resonant Capacitor



C41-BE1~3	Specifications
Reference Standards	GB/T 3984-2004 IEC 60110.1
Operating Temperature Range	-40°C~85°C
Capacitance Range	1.2μF~37μF
Rated Power	500kvar
Rated Voltage	500VAC-1100VAC
Tolerance	±10%
Test Voltage Between Terminals	1.5UNAC 10s
Dissipation Factor	2~3.5UNDC 10s at 25°C±5°C
Insulation Resistance	$tg\delta \leq 5 \times 10^{-4}$ at 25°C±5°C, 1kHz
Life Expectancy	$R \cdot C \geq 3000s$, at 100VDC, 25°C±5°C, 60s 100000h at UN and 70°C, 30000h at Urms

C41-TC1

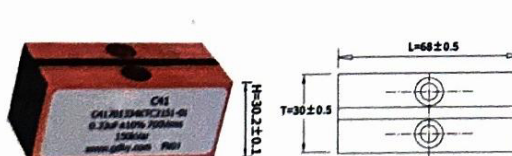
Water Cooled Resonant Capacitor



C41-TC1	Specifications
Reference Standards	GB/T 3984-2004 IEC 60110.1
Operating Temperature Range	-40°C~85°C
Capacitance Range	0.03μF~0.8μF
Rated Power	100kvar
Rated Voltage	450VAC-1100VAC
Tolerance	±10%
Test Voltage Between Terminals	1.5UNAC 10s
Dissipation Factor	2~3.5UNDC 10s at 25°C±5°C
Insulation Resistance	$tg\delta \leq 5 \times 10^{-4}$ at 25°C±5°C, 1kHz
Life Expectancy	$R \cdot C \geq 3000s$, at 100VDC, 25°C±5°C, 60s 100000h at UN and 70°C, 30000h at Urms

C41-TC2

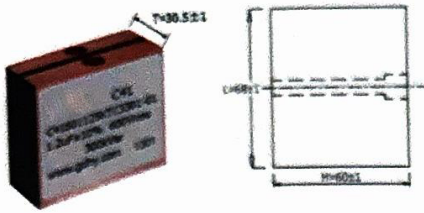
Water Cooled Resonant Capacitor



C41-TC2	Specifications
Reference Standards	GB/T 3984-2004 IEC 60110.1
Operating Temperature Range	-40°C~85°C
Capacitance Range	0.05μF~2.4μF
Rated Power	150kvar~300kvar
Rated Voltage	400VAC-1000VAC
Tolerance	±10%
Test Voltage Between Terminals	1.5UNAC 10s
Dissipation Factor	2~3.5UNDC 10s at 25°C±5°C
Insulation Resistance	$tg\delta \leq 5 \times 10^{-4}$ at 25°C±5°C, 1kHz
Life Expectancy	$R \cdot C \geq 3000s$, at 100VDC, 25°C±5°C, 60s 100000h at UN and 70°C, 30000h at Urms

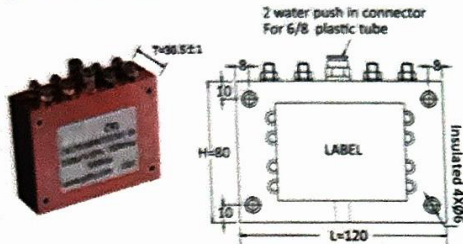
Power Electronic Film Capacitors

C41-TC3 Water Cooled Resonant Capacitor



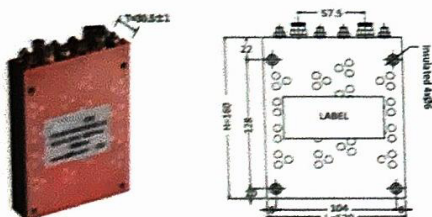
C41-TC3	Specifications
Reference Standards	GB/T 3984-2004 IEC 60110.1
Operating Temperature Range	-40°C~85°C
Capacitance Range	0.1μF~5μF
Rated Power	300kvar
Rated Voltage	400VAC-1000VAC
Tolerance	±10%
Test Voltage Between Terminals	1.5U _{NAC} 10s 2~3.5U _{NDC} 10s at 25°C±5°C
Dissipation Factor	tgδ≤5×10 ⁻⁴ at 25°C±5°C, 1kHz
Insulation Resistance	R·C≥3000s, at 100VDC, 25°C±5°C, 60s
Life Expectancy	100000h at U _N and 70°C, 30000h at U _{rms}

C41-TD1 Water Cooled Resonant Capacitor



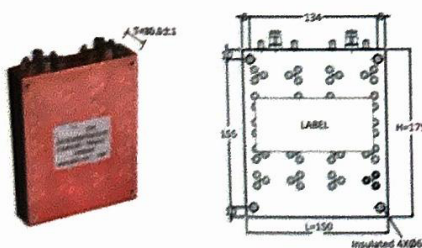
C41-TD1	Specifications
Reference Standards	GB/T 3984-2004 IEC 60110.1
Operating Temperature Range	-40°C~85°C
Capacitance Range	0.2μF~10μF
Rated Power	400kvar-500kvar
Rated Voltage	400VAC-700VAC
Tolerance	±10%
Test Voltage Between Terminals	1.5U _{NAC} 10s 2~3.5U _{NDC} 10s at 25°C±5°C
Dissipation Factor	tgδ≤5×10 ⁻⁴ at 25°C±5°C, 1kHz
Insulation Resistance	R·C≥3000s, at 100VDC, 25°C±5°C, 60s
Life Expectancy	100000h at U _N and 70°C, 30000h at U _{rms}

C41-TD2 Water Cooled Resonant Capacitor



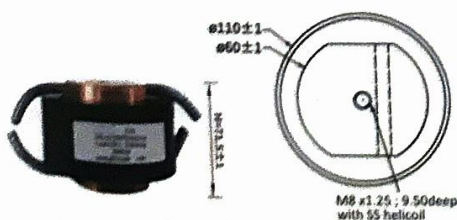
C41-TD2	Specifications
Reference Standards	GB/T 3984-2004 IEC 60110.1
Operating Temperature Range	-40°C~85°C
Capacitance Range	0.4μF~19μF
Rated Power	600kvar-800kvar
Rated Voltage	400VAC-700VAC
Tolerance	±10%
Test Voltage Between Terminals	1.5U _{NAC} 10s 2~3.5U _{NDC} 10s at 25°C±5°C
Dissipation Factor	tgδ≤5×10 ⁻⁴ at 25°C±5°C, 1kHz
Insulation Resistance	R·C≥3000s, at 100VDC, 25°C±5°C, 60s
Life Expectancy	100000h at U _N and 70°C, 30000h at U _{rms}

C41-TD3 Water Cooled Resonant Capacitor



C41-TD3	Specifications
Reference Standards	GB/T 3984-2004 IEC 60110.1
Operating Temperature Range	-40°C~85°C
Capacitance Range	0.5μF~24μF
Rated Power	1500kvar
Rated Voltage	500VAC-1000VAC
Tolerance	±10%
Test Voltage Between Terminals	1.5U _{NAC} 10s 2~3.5U _{NDC} 10s at 25°C±5°C
Dissipation Factor	tgδ≤5×10 ⁻⁴ at 25°C±5°C, 1kHz
Insulation Resistance	R·C≥3000s, at 100VDC, 25°C±5°C, 60s
Life Expectancy	100000h at U _N and 70°C, 30000h at U _{rms}

C41-TE1~3 Water Cooled Resonant Capacitor

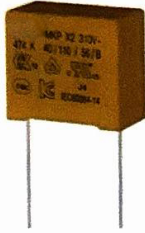


C41-TE1~3	Specifications
Reference Standards	GB/T 3984-2004 IEC 60110.1
Operating Temperature Range	-40°C~85°C
Capacitance Range	1.2μF~37μF
Rated Power	500kvar
Rated Voltage	500VAC-1100VAC
Tolerance	±10%
Test Voltage Between Terminals	1.5U _{NAC} 10s 2~3.5U _{NDC} 10s at 25°C±5°C
Dissipation Factor	tgδ≤5×10 ⁻⁴ at 25°C±5°C, 1kHz
Insulation Resistance	R·C≥3000s, at 100VDC, 25°C±5°C, 60s
Life Expectancy	100000h at U _N and 70°C, 30000h at U _{rms}

EMI Suppression MKP-X2 Capacitors

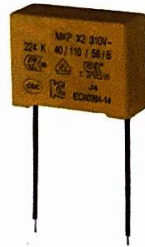
MKP-X2

Power Electromagnetic Interference Suppression Capacitors



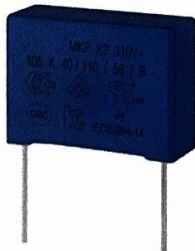
MKP-X2

Power Electromagnetic Interference Suppression Capacitors



MKP-X2

Power Electromagnetic Interference Suppression Capacitors



MKP-X2

Power Electromagnetic Interference Suppression Capacitors



MKP-X2

Power Electromagnetic Interference Suppression Capacitors



MKP-X2		Specifications					
Reference Standards	GB/T 14472(IEC 60384-14)						
Climate Category	40/110/56/B						
Operating Temperature Range	-40°C~110°C						
Rated AC Voltage	250/275/310VAC						
Rated DC Voltage	630VDC						
Capacitance Range	0.0047μF~10.0μF						
Capacity Tolerance	±10% (K); ±20% (M)						
Withstand Voltage	V _{tc} :4.3Un(VDC),2S ; V _{tc} :2100VAC,1min; 0.0047μF≤Cn<0.01μF ≤0.0020 (1Khz, 20°C) ≤0.0030 (1Khz, 20°C) 0.01μF≤Cn<1μF ≤0.0010 (10Khz, 20°C) ≤0.0020 (10Khz, 20°C) 1μF≤Cn<10μF ≤0.0020 (1Khz, 20°C)						
Dissipation Factor							
Insulation Resistance	R·C≥3000s; at100VDC; 25°C±5°C, 60s;						
Maximum Pulse Rise Time(dv/dt)	U _N (V)	dv/dt(V/μs)					
		P=7.5mm	P=10mm	P=15mm	P=22.5mm	P=27.5mm	P=37.5mm
	630VDC	500	400	300	150	100	50

MKP-X2		Specifications					
Reference Standards	GB/T 14472(IEC 60384-14)						
Climate Category	40/110/56/B						
Operating Temperature Range	-40°C~110°C						
Rated AC Voltage	250/275/310VAC						
Rated DC Voltage	630VDC						
Capacitance Range	0.0047μF~10.0μF						
Capacity Tolerance	±10% (K); ±20% (M)						
Withstand Voltage	V _{tc} :4.3Un(VDC),2S ; V _{tc} :2100VAC,1min; 0.0047μF≤Cn<0.01μF ≤0.0020 (1Khz, 20°C) ≤0.0030 (1Khz, 20°C) 0.01μF≤Cn<1μF ≤0.0010 (10Khz, 20°C) ≤0.0020 (10Khz, 20°C) 1μF≤Cn<10μF ≤0.0020 (1Khz, 20°C) —						
Dissipation Factor							
Insulation Resistance	R·C≥3000s; at100VDC; 25°C±5°C, 60s;						
Maximum Pulse Rise Time(dv/dt)	U _N (V)	dv/dt(V/μs)					
		P=7.5mm	P=10mm	P=15mm	P=22.5mm	P=27.5mm	P=37.5mm
		630VDC	500	400	300	150	100

MKP-X2		Specifications						
Reference Standards	GB/T 14472(IEC 60384-14)							
Climate Category	40/110/56/B							
Operating Temperature Range	-40°C~110°C							
Rated AC Voltage	250/275/310VAC							
Rated DC Voltage	630VDC							
Capacitance Range	0.0047μF~10.0μF							
Capacity Tolerance	±10% (K); ±20% (M)							
Withstand Voltage	V _{tc} :4.3Un(VDC),2S ; V _{tc} :2100VAC,1min; 0.0047μF≤Cn<0.01μF ≤0.0020 (1Khz, 20°C) ≤0.0030 (1Khz, 20°C) 0.01μF≤Cn<1μF ≤0.0010 (10Khz, 20°C) ≤0.0020 (10Khz, 20°C) 1μF≤Cn<10μF ≤0.0020 (1Khz, 20°C) —							
Dissipation Factor								
Insulation Resistance	R·C≥3000s; at100VDC; 25°C±5°C, 60s;							
Maximum Pulse Rise Time(dv/dt)	Un(V)	dv/dt(V/μS)						
		P=7.5mm	P=10mm	P=15mm	P=22.5mm	P=27.5mm	P=37.5mm	
	630VDC	500	400	300	150	100	50	

MKP-X2		Specifications					
Reference Standards	GB/T 14472(IEC 60384-14)						
Climate Category	40/110/56/B						
Operating Temperature Range	-40°C~110°C						
Rated AC Voltage	250/275/310VAC						
Rated DC Voltage	630VDC						
Capacitance Range	0.0047μF~10.0μF						
Capacity Tolerance	±10% (K); ±20% (M)						
Withstand Voltage	V _{tc} :4.3Un(VDC),2S ; V _{tc} :2100VAC,1min; 0.0047μF≤Cn<0.01μF ≤0.0020 (1Khz, 20°C) ≤0.0030 (1Khz, 20°C) 0.01μF≤Cn<1μF ≤0.0010 (10Khz, 20°C) ≤0.0020 (10Khz, 20°C) 1μF≤Cn<10μF ≤0.0020 (1Khz, 20°C)						
Dissipation Factor							
Insulation Resistance	R·C≥3000s; at100VDC; 25°C±5°C, 60s;						
Maximum Pulse Rise Time(dv/dt)	dv/dt(V/μS)						
	Un(V)	P=7.5mm	P=10mm	P=15mm	P=22.5mm	P=27.5mm	P=37.5mm
	630VDC	500	400	300	150	100	50

MKP-X2		Specifications					
Reference Standards	GB/T 14472(IEC 60384-14)						
Climate Category	40/110/56/B						
Operating Temperature Range	-40°C~110°C						
Rated AC Voltage	250/275/310VAC						
Rated DC Voltage	630VDC						
Capacitance Range	0.0047μF~10.0μF						
Capacity Tolerance	±10%(K); ±20%(M)						
Withstand Voltage	V _{tc} :4.3Un(VDC),2S; V _{tc} :2100VAC,1min; 0.0047μF≤Cn<0.01μF ≤0.0020 (1Khz, 20°C) ≤0.0030 (1Khz, 20°C) 0.01μF≤Cn<1μF ≤0.0010 (10Khz, 20°C) ≤0.0020 (10Khz, 20°C) 1μF≤Cn<10μF ≤0.0020 (1Khz, 20°C)						
Dissipation Factor							
Insulation Resistance	R·C≥3000s; at100VDC; 25°C±5°C, 60s;						
Maximum Pulse Rise Time(dv/dt)	dv/dt(V/μS)						
	Un(V)	P=7.5mm	P=10mm	P=15mm	P=22.5mm	P=27.5mm	P=37.5mm
	630VDC	500	400	300	150	100	50

CBB/CL Film Capacitors

CBB22 Metallized Polypropylene Film Capacitors



CBB81 High Voltage Metallized Polypropylene Film/Foil Capacitors



CBB28 Metallized Polypropylene Film Capacitors



CL21 Metallized Polyester Film Capacitors



CL21X Metallized Polyester Film Capacitors



CBB22		Specifications				
Reference Standards		GB/T 10190(IEC 60384-16)				
Climate Category		40/085/21				
Operating Temperature Range		-40°C~85°C				
Rated Voltage		100VDC/250VDC/400VDC/630VDC				
Capacitance Range		0.01μF~0.47μF				
Capacity Tolerance		±5% (J); ±10% (K); ±20% (M)				
Withstand Voltage		V _W :1.6Un 5s (at 20±5°C)				
Dissipation Factor		tgδ≤0.0010 (20°C, 1KHz)				
Insulation Resistance		R•C≥3000s; at 1000VDC; 25°C±5°C, 60s;				
Maximum Pulse Rise Time(dv/dt)		Un(V)	dv/dt(V/μS)			
			P=7.5	P=10	P=15	P=20
		100VDC	120	110	100	70
		250VDC	140	220	200	120
		400VDC	---	330	300	180
		630VDC	---	320	400	240

CBB81		Specifications	
Reference Standards		GB/T 14579(IEC 60384-17)	
Climate Category		40/085/21	
Operating Temperature Range		-40°C~85°C Tmax 105°C	
Rated Voltage		800VDC/1000VDC/1200VDC/1600VDC/2000VDC	
Capacitance Range		0.001μF~0.1μF	
Capacity Tolerance		±5% (J); ±10% (K); ±20% (M)	
Withstand Voltage		V _W :1.75Un 5s (at 20±5°C)	
Dissipation Factor		tgδ≤0.0010 (20°C, 1KHz)	
Insulation Resistance		R•C≥3000s; at 1000VDC; 25°C±5°C, 60s;	
Maximum Pulse Rise Time(dv/dt)		Un(V)	dv/dt(V/μS)
			P=15
		800VDC	10000
		1000VDC/1200VDC	20000
		1600VDC/2000VDC	30000

CBB28		Specifications	
Reference Standards		GB/T 10190(IEC 60384-16)	
Climate Category		40/085/21	
Operating Temperature Range		-40°C~85°C Tmax 105°C	
Rated Voltage		100VDC/250VDC/400VDC/630VDC	
Capacitance Range		0.001μF~0.22μF	
Capacity Tolerance		±5% (J); ±10% (K); ±20% (M)	
Withstand Voltage		V _W :2Un 5s (at 20±5°C)	
Dissipation Factor		tgδ≤0.0010 (20°C, 1KHz)	
Insulation Resistance		R•C≥3000s; at 100VDC; 25°C±5°C, 60s;	
Maximum Pulse Rise Time(dv/dt)		Un(V)	dv/dt(V/μS)
		630	300
		1000	350
		1250	400

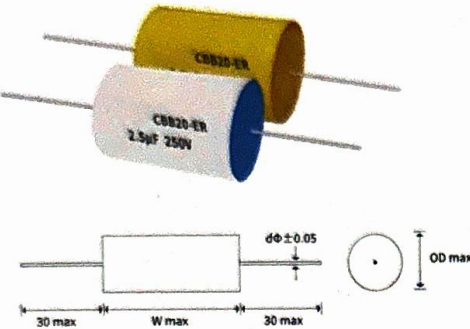
CL21		Specifications					
Reference Standards		GB/T 7332(IEC 60384-2)					
Climate Category		55/105/21					
Operating Temperature Range		-55°C~85°C Tmax +105°C					
Rated Voltage		100VDC/250VDC/400VDC/630VDC					
Capacitance Range		0.01μF~10μF					
Capacity Tolerance		±5% (J); ±10% (K); ±20% (M)					
Withstand Voltage		V _W :1.6Un 5s (at 20±5°C)					
Dissipation Factor		tgδ≤0.0100 (20°C, 1KHz)					
Insulation Resistance		R•C≥3000s; at 1000VDC; 25°C±5°C, 60s;					
Maximum Pulse Rise Time(dv/dt)		Un(V)	dv/dt(V/μS)				
			P=7.5	P=10	P=15	P=20	P=25
		100	25	25	20	10	5
		400	---	100	40	20	15
		250	---	150	60	30	25
		630	---	200	80	35	35

CL21X		Specifications		
Reference Standards		GB/T 7332(IEC 60384-2)		
Climate Category		55/85/21		
Operating Temperature Range		-40°C~85°C Tmax +105°C		
Rated Voltage		100VDC/250VDC/400VDC/630VDC		
Capacitance Range		0.01μF~10μF		
Capacity Tolerance		±5% (J); ±10% (K); ±20% (M)		
Withstand Voltage		V _W :1.6Un 5s (at 20±5°C)		
Dissipation Factor		tgδ≤0.0100 (20°C, 1KHz)		
Insulation Resistance		R•C≥3000s; at 1000VDC; 25°C±5°C, 60s;		
Maximum Pulse Rise Time(dv/dt)		Un(V)	dv/dt(V/μS)	
			P=5.0mm	P=7.5mm
		50VDC	30	20
		63VDC	30	20
		100VDC	40	25

Radio Capacitors

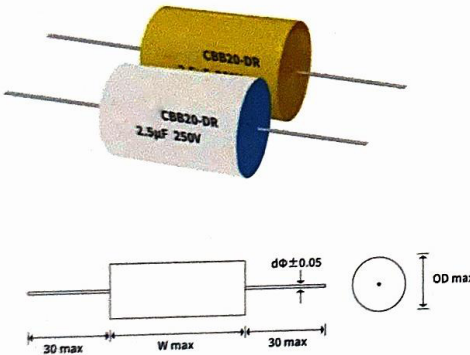
CBB20-ER

Axial Metallized Polypropylene Film Capacitors



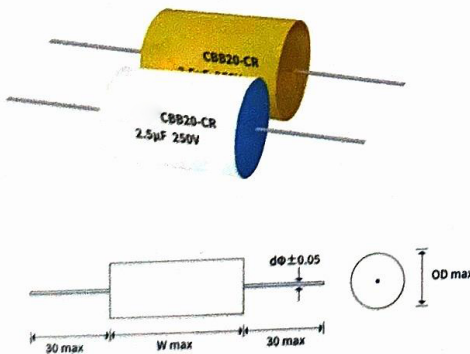
CBB20-DR

Axial Metallized Polypropylene Film Capacitors



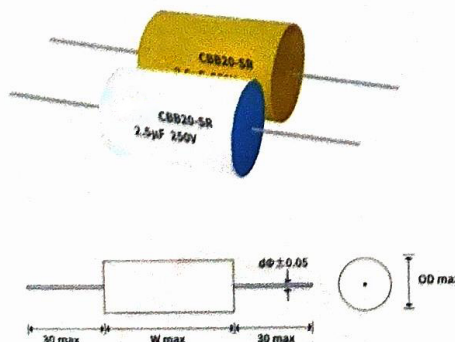
CBB20-CR

Axial Metallized Polypropylene Film Capacitors



CBB20-SR

Axial Metallized Polypropylene Film Capacitors



Specifications	
Reference Standards	GB/T 10190(IEC 60384-16)
Climate Category	40/105/21
Rated Temperature	85°C
Operating Temperature Range	-40°C~105°C(+85°C to +105°C: decreasing factor 1.25% per°C for VR(dc))
Rated Voltage	100VDC/160VDC/250VDC/400VDC/630VDC/1000VDC/1250VDC
Capacitance Range	0.01µF~150µF
Capacity Tolerance	±3% (H); ±5% (J); ±10% (K); ±20% (M)
Voltage Proof	1.6UR (5S)
Dissipation Factor	≤10x10 ⁻⁴ (20°C, 1KHz)
Insulation Resistance	≥50000MΩ, CR>0.33µF
	≥15000s, CR>0.33µF (20°C, 100V, 1min)
Maximum Pulse Rise Time(dv/dt)	Un(V) dv/dt(V/µs)
	L=12 L=15 L=19 L=27 L=32 L=42 L=56
	100/160 150 110 80 60 50 35 20
	250 300 220 150 110 90 60 30
	400 460 330 250 180 120 80 45
	630 600 440 300 220 150 100 60
	1000 800 550 400 300 200 150 80
	1250 1000 750 580 400 300 200 100

Specifications	
Reference Standards	GB/T 10190(IEC 60384-16)
Climate Category	40/105/21
Rated Temperature	85°C
Operating Temperature Range	-40°C~105°C(+85°C to +105°C: decreasing factor 1.25% per°C for VR(dc))
Rated Voltage	100VDC/160VDC/250VDC/400VDC/630VDC/1000VDC/1250VDC
Capacitance Range	0.01µF~150µF
Capacity Tolerance	±3% (H); ±5% (J); ±10% (K); ±20% (M)
Voltage Proof	1.6UR (5S)
Dissipation Factor	≤10x10 ⁻⁴ (20°C, 1KHz)
Insulation Resistance	≥50000MΩ, CR>0.33µF
	≥15000s, CR>0.33µF (20°C, 100V, 1min)
Maximum Pulse Rise Time(dv/dt)	Un(V) dv/dt(V/µs)
	L=12 L=15 L=19 L=27 L=32 L=42 L=56
	100/160 150 110 80 60 50 35 20
	250 300 220 150 110 90 60 30
	400 460 330 250 180 120 80 45
	630 600 440 300 220 150 100 60
	1000 800 550 400 300 200 150 80
	1250 1000 750 580 400 300 200 100

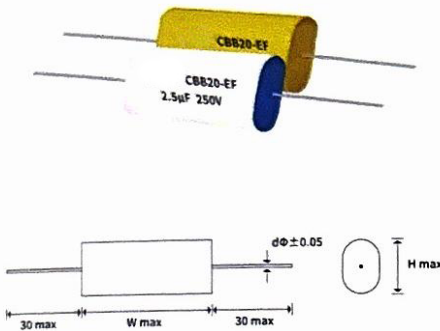
Specifications	
Reference Standards	GB/T 10190(IEC 60384-16)
Climate Category	40/105/21
Rated Temperature	85°C
Operating Temperature Range	-40°C~105°C(+85°C to +105°C: decreasing factor 1.25% per°C for VR(dc))
Rated Voltage	100VDC/160VDC/250VDC/400VDC/630VDC/1000VDC/1250VDC
Capacitance Range	0.01µF~150µF
Capacity Tolerance	±3% (H); ±5% (J); ±10% (K); ±20% (M)
Voltage Proof	1.6UR (5S)
Dissipation Factor	≤10x10 ⁻⁴ (20°C, 1KHz)
Insulation Resistance	≥50000MΩ, CR>0.33µF
	≥15000s, CR>0.33µF (20°C, 100V, 1min)
Maximum Pulse Rise Time(dv/dt)	Un(V) dv/dt(V/µs)
	L=12 L=15 L=19 L=27 L=32 L=42 L=56
	100/160 150 110 80 60 50 35 20
	250 300 220 150 110 90 60 30
	400 460 330 250 180 120 80 45
	630 600 440 300 220 150 100 60
	1000 800 550 400 300 200 150 80
	1250 1000 750 580 400 300 200 100

Specifications	
Reference Standards	GB/T 10190(IEC 60384-16)
Climate Category	40/105/21
Rated Temperature	85°C
Operating Temperature Range	-40°C~105°C(+85°C to +105°C: decreasing factor 1.25% per°C for VR(dc))
Rated Voltage	100VDC/160VDC/250VDC/400VDC/630VDC/1000VDC/1250VDC
Capacitance Range	0.01µF~150µF
Capacity Tolerance	±3% (H); ±5% (J); ±10% (K); ±20% (M)
Voltage Proof	1.6UR (5S)
Dissipation Factor	≤10x10 ⁻⁴ (20°C, 1KHz)
Insulation Resistance	≥50000MΩ, CR>0.33µF
	≥15000s, CR>0.33µF (20°C, 100V, 1min)
Maximum Pulse Rise Time(dv/dt)	Un(V) dv/dt(V/µs)
	L=12 L=15 L=19 L=27 L=32 L=42 L=56
	100/160 150 110 80 60 50 35 20
	250 300 220 150 110 90 60 30
	400 460 330 250 180 120 80 45
	630 600 440 300 220 150 100 60
	1000 800 550 400 300 200 150 80
	1250 1000 750 580 400 300 200 100

Radio Capacitors

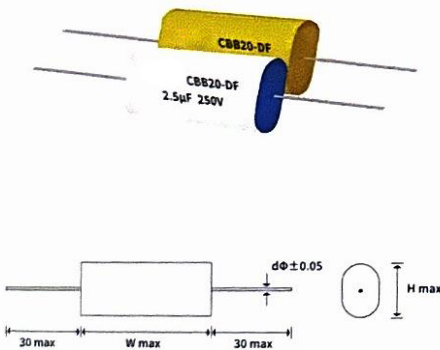
CBB20-EF

Axial Metallized Polypropylene Film Capacitors



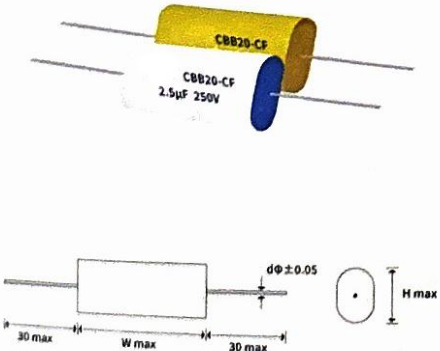
CBB20-DF

Axial Metallized Polypropylene Film Capacitors



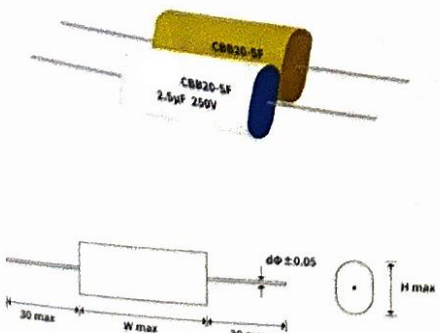
CBB20-CF

Axial Metallized Polypropylene Film Capacitors



CBB20-SF

Axial Metallized Polypropylene Film Capacitors



CBB20

Specifications

Reference Standards	GB/T 10190(IEC 60384-16)						
Climate Category	40/105/21						
Rated Temperature	85°C						
Operating Temperature Range	-40°C~105°C(+85°C to +105°C: decreasing factor 1.25% per°C for VR(dc))						
Rated Voltage	100VDC/160VDC/250VDC/400VDC/630VDC/1000VDC/1250VDC						
Capacitance Range	0.01μF~150μF						
Capacity Tolerance	±3% (H); ±5% (J); ±10% (K); ±20% (M)						
Voltage Proof	1.6UR (5S)						
Dissipation Factor	≤10x10 ⁻⁴ (20°C, 1KHz)						
Insulation Resistance	≥50000MΩ, CR≥0.33μF						
	≥15000s, CR>0.33μF (20°C, 100V, 1min)						
Maximum Pulse Rise Time(dv/dt)	Un(V)	dv/dt(V/μS)					
		L=12	L=15	L=19	L=27	L=32	L=42
	100/160	150	110	80	60	50	35
	250	300	220	150	110	90	60
	400	460	330	250	180	120	80
	630	600	440	300	220	150	100
	1000	800	550	400	300	200	150
	1250	1000	750	580	400	300	200

CBB20

Specifications

Reference Standards	GB/T 10190(IEC 60384-16)						
Climate Category	40/105/21						
Rated Temperature	85°C						
Operating Temperature Range	-40°C~105°C(+85°C to +105°C: decreasing factor 1.25% per°C for VR(dc))						
Rated Voltage	100VDC/160VDC/250VDC/400VDC/630VDC/1000VDC/1250VDC						
Capacitance Range	0.01μF~150μF						
Capacity Tolerance	±3% (H); ±5% (J); ±10% (K); ±20% (M)						
Voltage Proof	1.6UR (5S)						
Dissipation Factor	≤10x10 ⁻⁴ (20°C, 1KHz)						
Insulation Resistance	≥50000MΩ, CR≥0.33μF						
	≥15000s, CR>0.33μF (20°C, 100V, 1min)						
Maximum Pulse Rise Time(dv/dt)	Un(V)	dv/dt(V/μS)					
		L=12	L=15	L=19	L=27	L=32	L=42
	100/160	150	110	80	60	50	35
	250	300	220	150	110	90	60
	400	460	330	250	180	120	80
	630	600	440	300	220	150	100
	1000	800	550	400	300	200	150
	1250	1000	750	580	400	300	200

CBB20

Specifications

Reference Standards	GB/T 10190(IEC 60384-16)						
Climate Category	40/105/21						
Rated Temperature	85°C						
Operating Temperature Range	-40°C~105°C(+85°C to +105°C: decreasing factor 1.25% per°C for VR(dc))						
Rated Voltage	100VDC/160VDC/250VDC/400VDC/630VDC/1000VDC/1250VDC						
Capacitance Range	0.01μF~150μF						
Capacity Tolerance	±3% (H); ±5% (J); ±10% (K); ±20% (M)						
Voltage Proof	1.6UR (5S)						
Dissipation Factor	≤10x10 ⁻⁴ (20°C, 1KHz)						
Insulation Resistance	≥50000MΩ, CR≥0.33μF						
	≥15000s, CR>0.33μF (20°C, 100V, 1min)						
Maximum Pulse Rise Time(dv/dt)	Un(V)	dv/dt(V/μS)					
		L=12	L=15	L=19	L=27	L=32	L=42
	100/160	150	110	80	60	50	35
	250	300	220	150	110	90	60
	400	460	330	250	180	120	80
	630	600	440	300	220	150	100
	1000	800	550	400	300	200	150
	1250	1000	750	580	400	300	200

CBB20

Specifications

Reference Standards	GB/T 10190(IEC 60384-16)						
Climate Category	40/105/21						
Rated Temperature	85°C						
Operating Temperature Range	-40°C~105°C(+85°C to +105°C: decreasing factor 1.25% per°C for VR(dc))						
Rated Voltage	100VDC/160VDC/250VDC/400VDC/630VDC/1000VDC/1250VDC						
Capacitance Range	0.01μF~150μF						
Capacity Tolerance	±3% (H); ±5% (J); ±10% (K); ±20% (M)						
Voltage Proof	1.6UR (5S)						
Dissipation Factor	≤10x10 ⁻⁴ (20°C, 1KHz)						
Insulation Resistance	≥50000MΩ, CR≥0.33μF						
	≥15000s, CR>0.33μF (20°C, 100V, 1min)						
Maximum Pulse Rise Time(dv/dt)	Un(V)	dv/dt(V/μS)					
		L=12	L=15	L=19	L=27	L=32	L=42
	100/160	150	110	80	60	50	35
	250	300	220	150	110	90	60
	400	460	330	250	180	120	80
	630	600	440	300	220	150	100
	1000	800	550	400	300	200	150
	1250	1000	750	580	400	300	200

CBB/CL Film Capacitors

CL23

Mini Box Metallized Polyester Film Capacitors

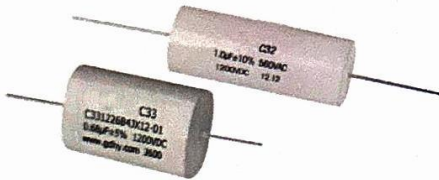


CL23		Specifications	
Reference Standards	GB/T 7332(IEC 60384-2)		
Climate Category	40/85/21		
Operating Temperature Range	-40°C~85°C		
Rated Voltage	50VDC/63VDC/100VDC/250VDC/400VDC/630VDC		
Capacitance Range	0.001μF~2.2μF		
Capacity Tolerance	±5% (J); ±10% (K); ±20% (M)		
Withstand Voltage	V _{t-t} :1.6Un 5s (at 20±5°C)		
Dissipation Factor	Test Frequency	C _N ≤0.1μF	C _N >0.1μF
	1Khz	≤0.010	>0.010
	10Khz	≤0.015	>0.015
	100Khz	≤0.030	---
Insulation Resistance	C _N ≤0.33μF		C _N >0.33μF
	U _N ≤100V	U _N >100V	U _N ≤100V
	U _N >100V	U _N ≤100V	U _N >100V
	≥15000MΩ	≥30000MΩ	≥1000S
Maximum Pulse Rise Time(dv/dt)	U _R (V)	dv/dt(V/μS)	
	50/63VDC	75	
	100VDC	85	
	250VDC	150	
	400VDC	200	

IGBT Snubber Capacitors

C32/C33

IGBT Snubber Protection Capacitor



Specifications	
Reference Standard	IEC61071
Operating Temperature Range	-40°C~+70°C Tmax+85°C
Capacitance Range	0.1μF~5.0μF
Rated Voltage	700VDC~3000VDC
Capacity Tolerance	±5%(J); ±10%(K)
Withstand Voltage	1.5Un DC/10S
Dissipation Factor	tgδ≤0.0005 C≤1μF f=10KHz at 20°C
	tgδ≤0.0010 C≥1μF f=10KHz at 20°C
Insulation Resistance	R·C≥3000s; at 100VDC; 25°C±5°C, 60s
Flame Retardation	UL94V-0
Life Expectancy	100000hrs (Un θhotspot ≤ 70°C)

C31/C34

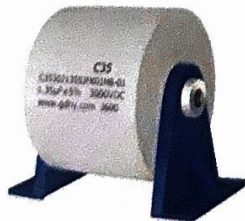
IGBT Snubber Protection Capacitor



Specifications	
Reference Standard	IEC61071 GB/T17702
Operating Temperature Range	-40°C~85°C Tmax+105°C
Capacitance Range	0.0068μF~10μF
Rated Voltage	700VDC~3000VDC
Capacity Tolerance	±5%(J); ±10%(K)
Withstand Voltage	1.5Un DC/10S at 20°C
Dissipation Factor	tgδ≤0.0005 C≤1μF f=10KHz at 20°C
	tgδ≤0.0010 C≥1μF f=10KHz at 20°C
Insulation Resistance	R·C≥3000s; at 100VDC; 25°C±5°C, 60s
Flame Retardation	UL94V-0
Life Expectancy	100000hrs (Un θhotspot ≤ 85°C)

C35

IGBT Snubber Protection Capacitor

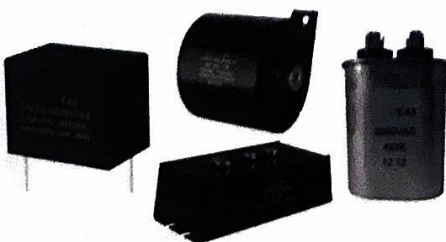


Specifications	
Reference Standard	IEC61071 GB/T17702
Operating Temperature Range	-40°C~70°C(MAX +85°C) Tmax+85°C
Capacitance Range	0.33μF~6.0μF
Rated Voltage	3000VDC~20000VDC
Capacity Tolerance	±5%(J); ±10%(K)
Withstand Voltage	1.5Un DC/10S
Dissipation Factor	tgδ≤0.0005 C≤1μF f=10KHz at 20°C
	tgδ≤0.0010 C≥1μF f=10KHz at 20°C
Insulation Resistance	R·C≥3000s; at 100VDC; 25°C±5°C, 60s
Flame Retardation	UL94V-0
Life Expectancy	100000hrs (Un θhotspot ≤ 70°C)

Resonant/DC-Link/DC Ripple/AC Filter Capacitors

C42/C43/C44/C47

Resonant Capacitor



Specifications	
Reference Standard	IEC61071 GB/T17702
Operating Temperature Range	-40°C~85°C Tmax+105°C
Capacitance Range	0.004μF~8.0μF
Rated Voltage	400VDC~3000VDC
Capacity Tolerance	±5%(J); ±10%(K)
Withstand Voltage	Vt-t:1.5Un(Dc)60s 20°C
Dissipation Factor	Vt-c:1000+2xUn/√2(VAC) 50Hz 60S (min 3000VAC)
	tgδ≤0.0005 C≤1μF f=10KHz at 20°C
Insulation Resistance	tgδ≤0.0010 C≥1μF f=10KHz at 20°C
	R·C≥3000s; at 100VDC; 25°C±5°C, 60s
Flame Retardation	UL94V-0
Life Expectancy	100000hrs (Un θhotspot ≤ 70°C)

Resonant/DC-Link/DC Ripple/AC Filter Capacitors

C46
Resonant Capacitor



C46	Specifications
Reference Standard	IEC61071 GB/T17702
Operating Temperature Range	-40°C~70°C max+85°C
Capacitance Range	0.33μF ~ 6.0μF
Rated Voltage	3000VDC~20000VDC
Capacity Tolerance	±5%(J); ±10%(K)
Withstand Voltage	1.5UN DC/10S
Dissipation Factor	tgδ≤0.0005 C≤1μF f=10KHz at 20°C
Insulation Resistance	tgδ≤0.0010 C≥1μF f=10KHz at 20°C
Flame Retardation	R·C≥3000s; at 100VDC; 25°C±5°C, 60s
Life Expectancy	UL94V-0
	100000hrs (Un θhotspot ≤ 70°C)

C51/C52/C56
DC-Link Capacitor



C51/C52/C56	Specifications
Reference Standards	GB/T 17702 IEC 61071
Operating Temperature Range	-40°C~70 °C Tmax:+105°C
Capacitance Range	0.1μF~1000μF
Rated Voltage	600VAC-1200VAC
Capacity Tolerance	±5%, ±10%
Test Voltage Between Electrodes	1.5UN (DC) 60s 20°C
Test Voltage Between Electrode and case	1000+2xUN/√2 (VAC) 50Hz 60S (min 3000VAC)
Dissipation Factor	tgδ≤2×10 ⁻³ at 20°C, 1kHz
Insulation Resistance	R·C≥3000s, at 100VDC, 25°C±5°C, 60s
Life Expectancy	100000hrs (UN θhotspot≤70°C)

C53
DC-Link Capacitor



C53	Specifications
Reference Standards	GB/T 17702 IEC 61071
Operating Temperature Range	-40°C~70 °C Tmax:+85°C
Capacitance Range	15μF~300μF
Rated Voltage	600VDC-1200VDC
Capacity Tolerance	±5%(J), ±10%(K)
Test Voltage Between Electrodes	1.5UN (DC) 60s 20°C
Test Voltage Between Electrode and case	1000+2xUN/√2 (VAC) 50Hz 60S (min 3000VAC)
Dissipation Factor	tgδ≤2×10 ⁻³ at 20°C, 1kHz
Insulation Resistance	R·C≥3000s, at 100VDC, 25°C±5°C, 60s
Life Expectancy	100000hrs (UN θhotspot≤70°C)

C61
AC/DC Filter and High Ripple Current Capacitor



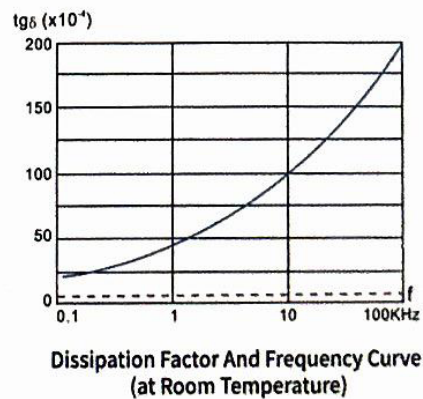
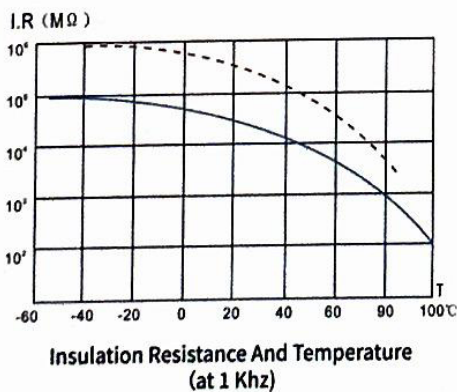
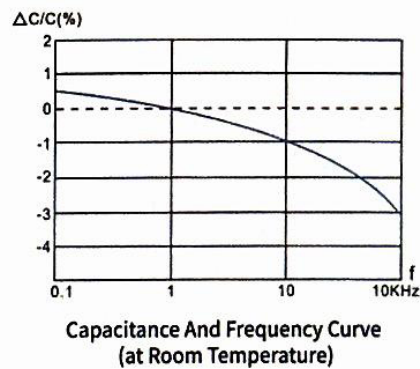
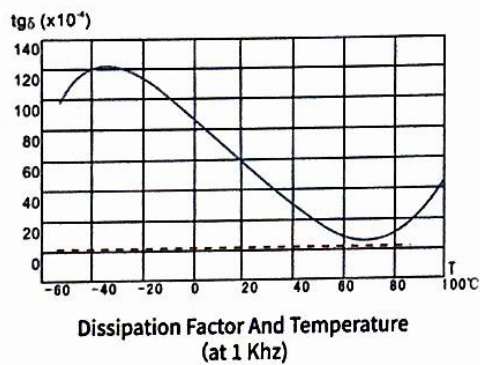
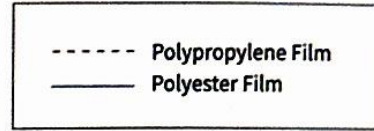
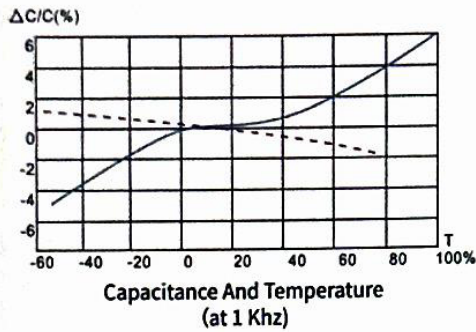
C61	Specifications
Reference Standards	GB/T 17702 IEC 61071
Operating Temperature Range	-40°C~70 °C (Max+85°C) Tmax:+85°C
Capacitance Range	150μF
Rated Voltage	400VDC-1200VDC
Capacity Tolerance	±5%(J), ±10%(K)
Withstand Voltage	1.5UN (DC) 10s
Dissipation Factor	tgδ≤0.0010f=100Hz at 20°C
Insulation Resistance	R·C≥3000s, at 100VDC, 25°C±5°C, 60s
Flame Retardation	UL94V-0
Life Expectancy	100000hrs (UN θhotspot≤55°C)

C72/C73
AC Harmonic Filter Capacitor

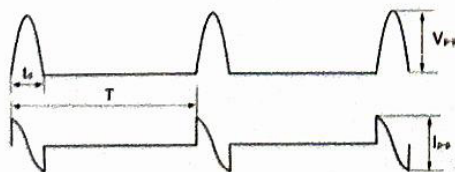


C72/C73	Specifications
Reference Standards	GB/T 17702 IEC 61071
Operating Temperature Range	-40°C~+70°C Tmax+85°C
Capacitance Range	20μF~500μF
Rated Voltage	3×40μF~3×200μF
Capacity Tolerance	250VAC/50Hz~1140VAC/50Hz
Test Voltage Between Electrodes	±5%(J); ±10%(K)
Test Voltage Between Electrode And Case	2.15UN (AC) 10S 20°C
Dissipation Factor	1000+2×UN (VAC) 50Hz 60S (min 3000VAC)
Insulation Resistance	tgδ≤2×10 ⁻³ at 20°C, 100Hz
Maximum Altitude	C·R≥10000S, at 100VDC, 20°C, 60S
Life Expectancy	2000m
	For altitudes between 2000m and 5000m, consideration should be given to the use of deductions (10% reduction in voltage and current per 1000m increase)
	100000hrs (Un θhotspot ≤ 55°C)

Capacitor Properties Typical Curves



Flyback Waveform:



DUTY= t_d/T
S-Correction Waveform:

