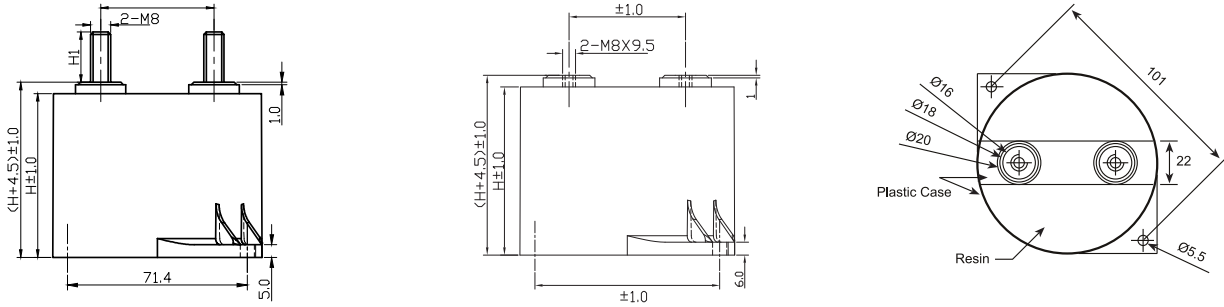




塑料外壳干式直流滤波电容器 DC-Link Capacitor (Dry-Type, Plastic case)

■ 外形图 Outline Drawing



■ 特点

- 应用于直流滤波电路中，可替代电解电容器
- 等效串联电阻小，能承受较大的纹波电流
- 自感小
- 有自愈性
- 寿命长
- 塑料外壳，树脂灌封

■ 应用场合

- 风能发电、太阳能发电用变频器上
- 交通工具，如：电动车和混合动力车
- 焊接设备，电梯，电机驱动

■ 技术要求 Specifications

■ Features

- Used in DC-Link circuits, can replace electrolytic capacitor
- Low ESR, high ripple current handling capabilities
- Low Ls
- Self-healing property
- Long lifetime
- Plastic case, filled with resin

■ Applications

- Used in inverters of wind power and solar power
- Transportation: EV or HEV
- Welders, Elevators, Motor Driver systems

引用标准 Reference Standard	GB/T 17702 (IEC 61071) 、 AEC-Q200D-2010	
气候类别 Climatic Category	40/105/56	
工作温度范围 Operating Temperature Range	-40℃ ~ 105℃ ($\Theta_{hs} \leq 105^\circ\text{C}$) $\Theta_{hs} = 85^\circ\text{C} \sim 105^\circ\text{C}$: decreasing factor 1.5% per℃ for U_N	
贮存温度范围 Storage Temperature Range	-40℃ ~ 105℃	
电压范围 Voltage Range	450Vdc ~ 900Vdc	
容量范围 Capacitance Range	47μF ~ 600μF	
电容量允许偏差 Capacitance Tolerance	± 5%(J); ± 10%(K)	
耐电压 Voltage Proof	极间 Between Terminals:	1.5 U_N (10s, 20℃ ± 5℃)
	极壳之间 Between Terminals And Case:	3 000Vac(60s, 50Hz, 20℃ ± 5℃)
介质损耗角正切 $\text{tg } \delta_d$	0.0002	
$IR \times C_N$	$\geq 5\ 000\text{s}$ (20℃, 100Vdc, 1min)	
过电压 Over Voltage	1.1 U_N (30% of on-load-dur.)	
	1.15 U_N (30min/day)	
	1.2 U_N (5min/day)	
	1.3 U_N (1min/day)	
	1.5 U_N (30ms every time, 1 000 times during the life of the capacitor)	
最高使用海拔 Max. Altitude	2 000m	
最大电极扭矩 Max. Torque of terminals	M5: 2.5Nm	M8: 6.0Nm
	3.0Nm	
最大安装扭矩 Max. Torque of Installation	3.0Nm	
安装 Installation	任意方向 Any Position	
预期寿命 Expected lifetime	参考预期寿命曲线 Refer to Expected lifetime curve	
失效率 Failure rate	50FIT	

Snubber capacitor for IGBT

尺寸 Dimensions(mm)

U _N (Vdc)	C _N (μF)	ESR @10kHz (mΩ)	L _s (nH)	R _{th} (K/W)	Î (A)	I _{max} (A)		Dimension		Weight (kg)	Part number	Expected lifetime
						60°C	85°C	ΦD	H			
450	170	0.7	25	6.8	2 141	92	65	84.5	41	≈ 0.35	Lifetime curve	
	260	0.9	32	5.3	2 240	97	65	84.5	50	≈ 0.40		
	380	1.0	40	5.0	2 195	95	63	84.5	65	≈ 0.48		
	380	1.0	40	5.2	2 195	93	62	83.2	65	≈ 0.47		
	600	1.0	40	3.4	3 955	100	76	115.0	64	≈ 0.90		
600	100	0.8	25	6.8	2 164	88	58	84.5	41	≈ 0.35		
	150	1.0	32	5.3	2 244	89	59	84.5	50	≈ 0.40		
	220	1.1	40	5.0	2 169	89	59	84.5	65	≈ 0.48		
	220	1.1	40	5.2	2 169	87	58	83.2	65	≈ 0.47		
	350	1.0	40	3.4	3 879	100	76	115.0	64	≈ 0.90		
800	66	0.8	25	6.8	1 907	91	61	84.5	41	≈ 0.35		
	100	1.1	32	5.3	1 998	88	59	84.5	50	≈ 0.40		
	140	1.3	40	5.0	1 843	83	55	84.5	65	≈ 0.48		
	140	1.3	40	5.2	1 843	82	54	83.2	65	≈ 0.47		
	230	1.1	40	3.4	3 404	100	73	115.0	64	≈ 0.90		
900	47	1.0	25	6.8	1 620	78	52	84.5	41	≈ 0.35		
	70	1.2	32	5.3	1 688	84	56	84.5	50	≈ 0.40		
	100	1.3	40	5.0	1 570	83	55	84.5	65	≈ 0.48		
	100	1.3	40	5.2	1 570	81	54	83.2	65	≈ 0.47		
	160	1.2	40	3.4	2 824	99	70	115.0	64	≈ 0.90		

■ 预期寿命曲线 Expected lifetime curve

