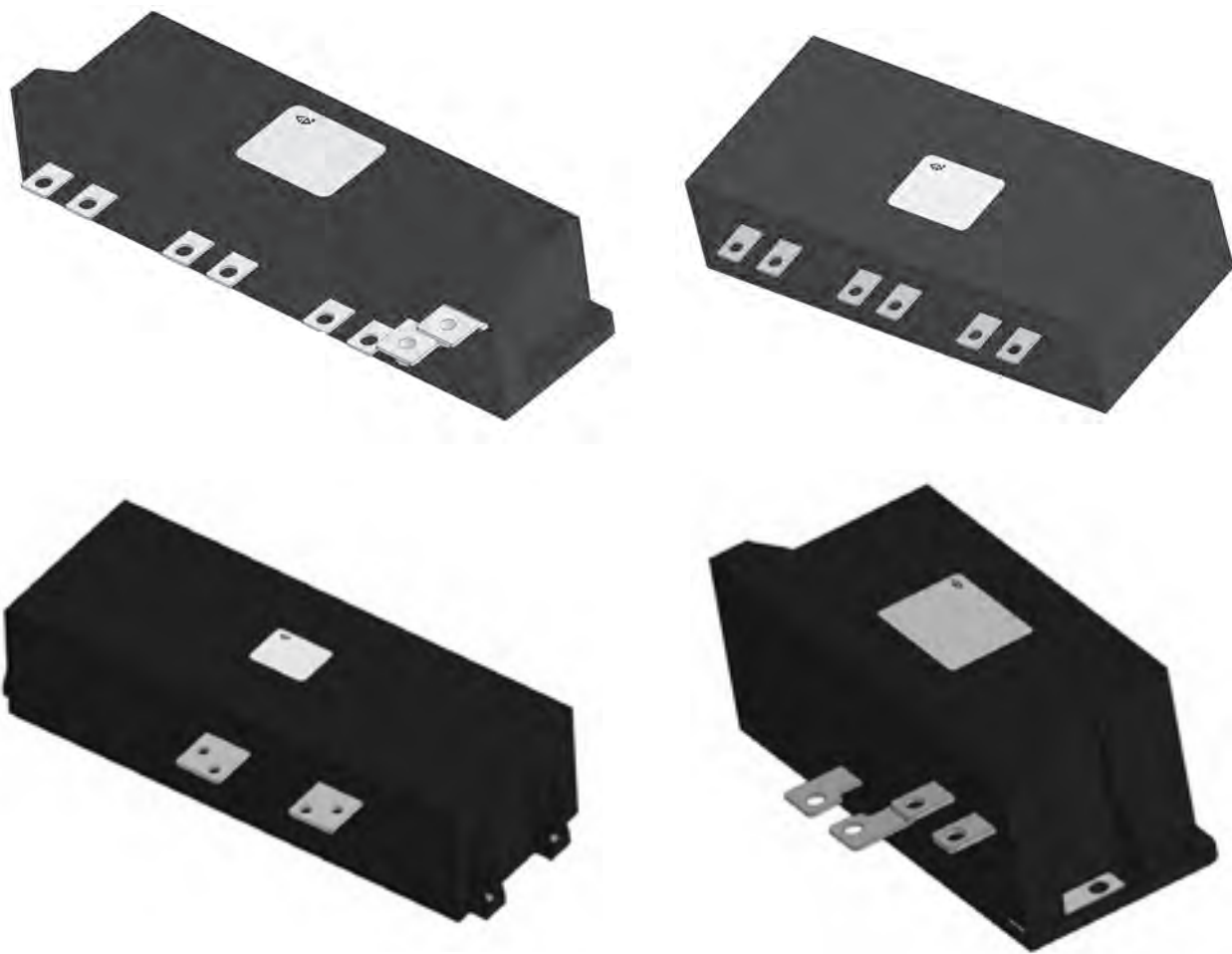


干式直流滤波电容器（定制品）

DC-Link-Capacitor（Customized products）

■ 外形图 Outline Drawing



■ 特点

- 应用于直流滤波电路中，可替代电解电容
- 等效串联电阻小，能承受大的纹波电流
- 自感小
- 有自愈性
- 寿命长
- 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

■ Features

- Used in DC-Link circuits, Can replace electrolytic capacitor
- Low ESR, high ripple current handling capabilities
- Low ESL
- Self-healing property
- Long lifetime
- Filled with resin

■ Applications

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



C36

■ 产品代码 Part number

C362S557K0*****

■ 技术参数 Technical data

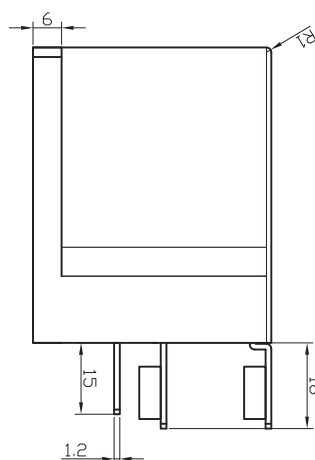
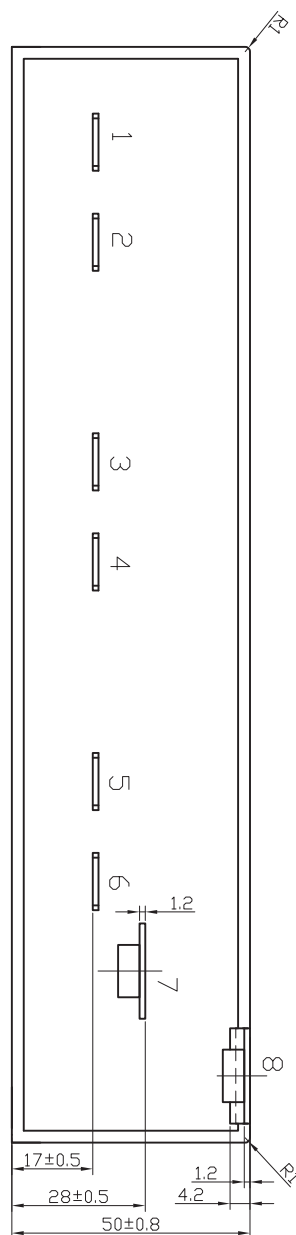
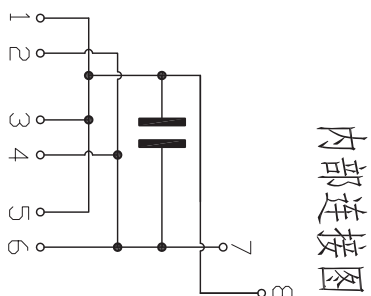
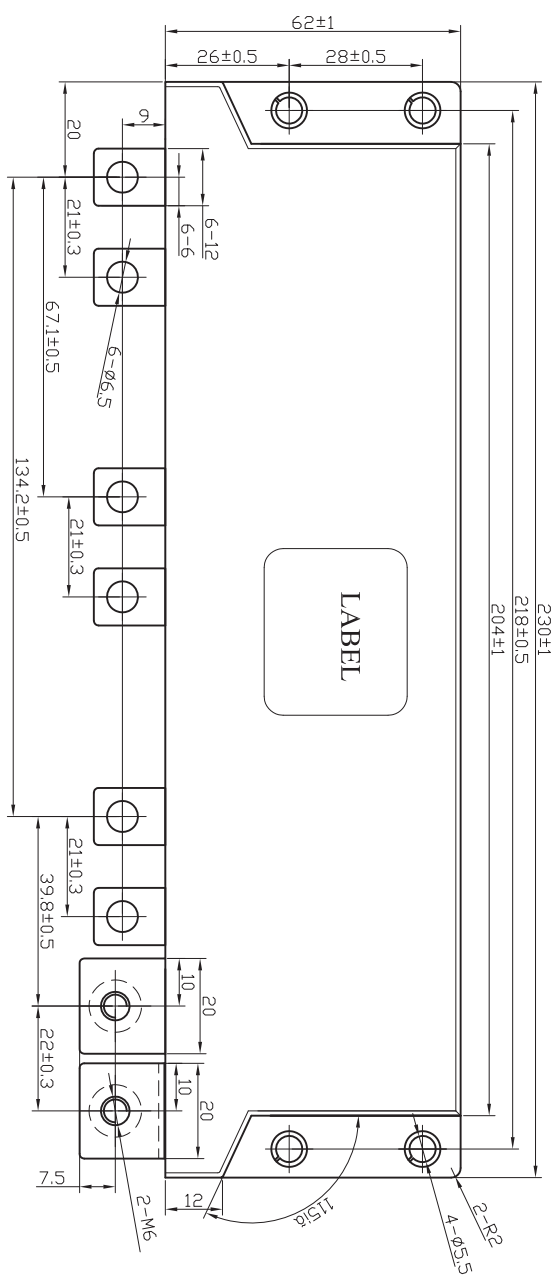
引用标准 Reference Standard	IEC 61071、AEC Q200D-2010	
气候类别 Climatic Category	40/105/56	
工作温度范围 Operating Temperature Range	-40℃ ~ 105℃ $\Theta_{hs} \leq 105^\circ\text{C}$	
贮存温度范围 Storage Temperature Range	-40℃ ~ 105℃	
额定电压 (U _N) Rated Voltage	450Vdc	
额定容量 (C _N) Rated capacitance	550μF	
电容量允许偏差 Capacitance Tolerance	± 10%(K)	
耐电压 Voltage Proof	极间 Between Terminals:	1.5U _N (10s, 20℃ ± 5℃)
	极壳之间 Between Terminals And Case:	3 000Vac(10s, 50Hz, 20℃ ± 5℃)
介质损耗 tg δ ₀	0.0002	
IR × C _N	≥ 10 000s (20℃, 100Vdc, 1min)	
等效串联电阻 ESR (10kHz)	0.4mΩ	
自感 L _s	15nH	
热阻 (热点到外壳) R _{thhc} (Θ_{hs} to Θ_{case})	1.0K/W	
最大直流侧电流 Max. I _{rms} for DC	200A	
最大纹波电流值 Max. ripple I _{rms}	130A	
$\hat{i}$	2 200A	
$\hat{i}_s$	8 800A	
U _s	600Vdc	
爬电距离 Creepage distance	9mm	
电气距离 Clearance	9mm	
最大电极扭矩 Max Torque of terminals	5Nm	
预期寿命 Expected Lifetime	50 000hours (U _N , $\Theta_{hs}=85^\circ\text{C}$)	15 000hours (U _N , $\Theta_{hs}=105^\circ\text{C}$)
失效率 Failure rate	50FIT	
尺寸 Dimension(l × w × h)	230mm × 62mm × 50mm	
重量 Weight	≈ 1.0kg	

* Θ_{case} : 外壳温度;

* ESR: 电容器内部串联电阻总和;

* $\Theta_{hs} = \Theta_{case} + I_{rms}^2 \times ESR \times R_{thhc}$.* Θ_{case} : Temperature of case.

* ESR: The sum of all ohmic resistances occurring inside the capacitor.





C36

■ 产品代码 Part number

C362S607K0*****

■ 技术参数 Technical data

引用标准 Reference Standard	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℃ $\Theta_{hs} \leq 105^\circ\text{C}$	
存储温度范围 Storage Temperature Range	-40℃ ~ 105℃	
额定电压 (U _N) Rated Voltage	450Vdc	
额定容量 (C _N) Rated capacitance	600μF	
电容量允许偏差 Capacitance Tolerance	± 10%(K)	
耐电压 Voltage Proof	极间 Between Terminals:	1.5U _N (10s, 20℃ ± 5℃)
	极壳之间 Between Terminals And Case:	3 000Vac(10s, 50Hz, 20℃ ± 5℃)
介质损耗 tg δ ₀	0.0002	
IR × C _N	≥ 10 000s (20℃, 100Vdc, 1min)	
等效串联电阻 ESR (10kHz)	0.8mΩ	
自感 L _s	25nH	
热阻 (热点到外壳) R _{thhc} (Θ _{hs} to Θ _{case})	2.0K/W	
最大纹波电流值 Max. ripple I _{rms}	130A	
$\hat{I}$	1 800A	
$\hat{I}_s$	5 400A	
U _s	600Vdc	
爬电距离 Creepage distance	12mm	
电气距离 Clearance	10mm	
预期寿命 Expected Lifetime	50 000hours (U _N , Θ _{hs} =85℃)	15 000hours (U _N , Θ _{hs} =105℃)
失效率 Failure rate	50FIT	
尺寸 Dimension(l × w × h)	170mm × 72mm × 65mm	
重量 Weight	≈ 1.2kg	
Y 电容 Class Y1	C47S1562K90C000(26.5 × 15.0 × 6.0--P22.5)	

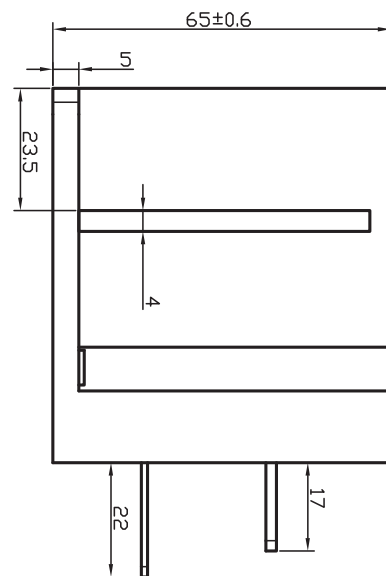
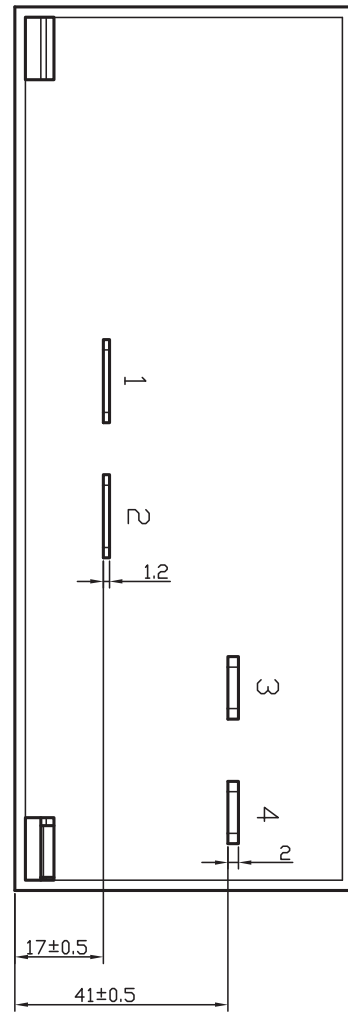
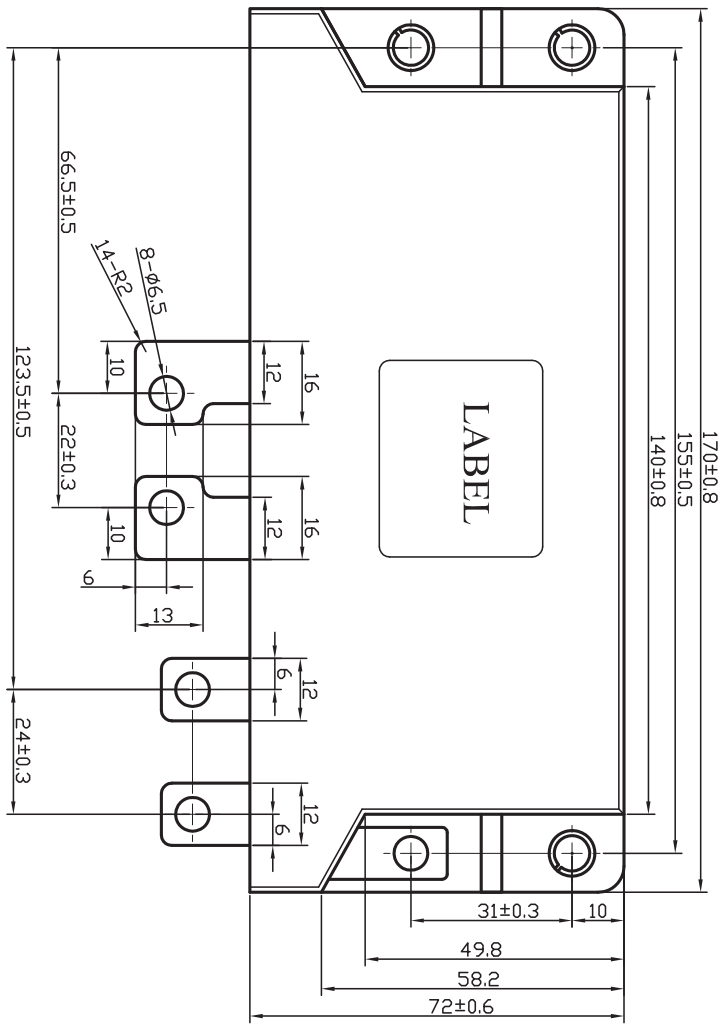
* Θ_{case}: 外壳温度;

* ESR: 电容器内部串联电阻总和;

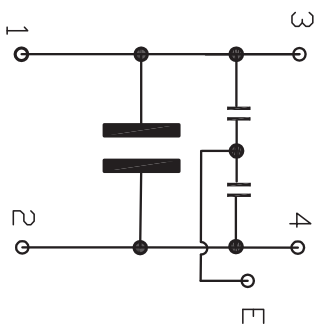
* Θ_{hs} = Θ_{case} + I_{rms}² × ESR × R_{thhc}.* Θ_{case}: Temperature of case.

* ESR: The sum of all ohmic resistances occurring inside the capacitor.

C36



内部连接图





C36

■ 产品代码 Part number

C362H757K0*****

■ 技术参数 Technical data

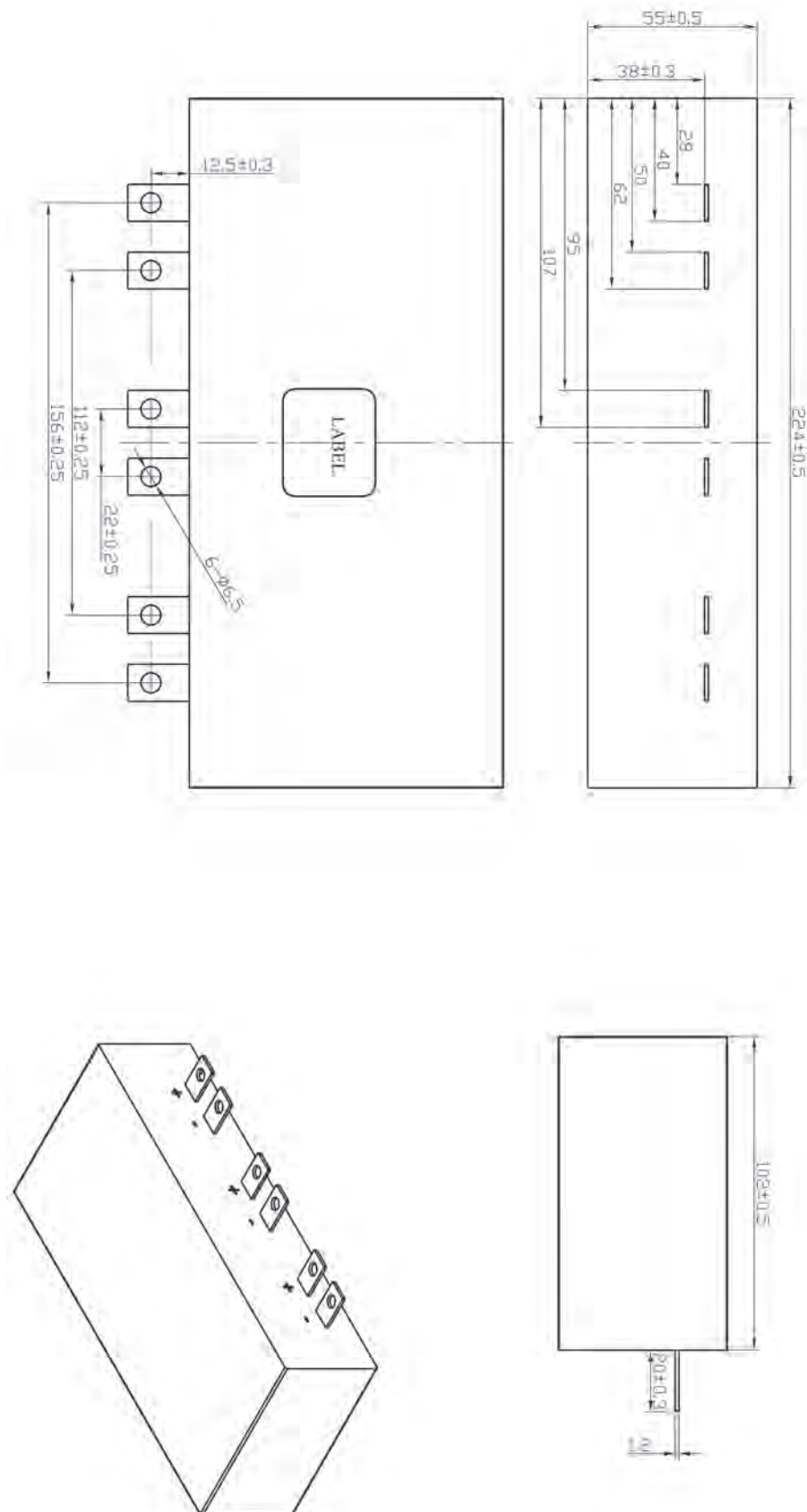
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气候类别 Climatic Category	40/105/56	
工作温度范围 Operating Temperature Range	-40℃ ~ 105℃ $\Theta_{hs} \leq 105^\circ\text{C}$	
存储温度范围 Storage Temperature Range	-40℃ ~ 105℃	
额定电压 (U _N) Rated Voltage	500Vdc	
额定容量 (C _N) Rated capacitance	750μF	
电容量允许偏差 Capacitance Tolerance	± 10%(K)	
耐电压 Voltage Proof	极间 Between Terminals:	1.5U _N (10s, 20℃ ± 5℃)
	极壳之间 Between Terminals And Case:	3 000Vac(10s, 50Hz, 20℃ ± 5℃)
介质损耗 tg δ ₀	0.0002	
IR × C _N	≥ 10 000s (20℃, 100Vdc, 1min)	
等效串联电阻 ESR (10kHz)	0.4mΩ	
自感 L _s	20nH	
热阻 (热点到外壳) R _{thhc} (Θ _{hs} to Θ _{case})	1.5K/W	
最大纹波电流值 Max. ripple I _{rms}	250A	
$\hat{I}$	3 000A	
$\hat{I}_s$	9 000A	
U _s	650Vdc	
爬电距离 Creepage distance	10mm	
电气距离 Clearance	10mm	
预期寿命 Expected Lifetime	50 000hours (U _N , Θ _{hs} =85℃)	15 000hours (U _N , Θ _{hs} =105℃)
失效率 Failure rate	50FIT	
尺寸 Dimension(l × w × h)	224mm × 102mm × 55mm	
重量 Weight	≈ 2.0kg	

* Θ_{case}: 外壳温度;* Θ_{case}: Temperature of case.

* ESR: 电容器内部串联电阻总和;

* ESR: The sum of all ohmic resistances occurring inside the capacitor.

* Θ_{hs} = Θ_{case} + I_{rms}² × ESR × R_{thhc}.





C36

■ 产品代码 Part number

C361X158K0*****

■ 技术参数 Technical data

引用标准 Reference Standard	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℃ $\Theta_{hs} \leq 105^\circ\text{C}$	
存储温度范围 Storage Temperature Range	-40℃ ~ 105℃	
额定电压 (U _N) Rated Voltage	900Vdc	
额定容量 (C _N) Rated capacitance	1 500μF	
电容量允许偏差 Capacitance Tolerance	± 10%(K)	
耐电压 Voltage Proof	极间 Between Terminals:	1.5U _N (10s, 20℃ ± 5℃)
	极壳之间 Between Terminals And Case:	3 000Vac(10s, 50Hz, 20℃ ± 5℃)
介质损耗 tg δ ₀	0.0002	
IR × C _N	≥ 10 000s (20℃, 100Vdc, 1min)	
等效串联电阻 ESR (10kHz)	0.4mΩ	
自感 L _s	55nH	
热阻 (热点到外壳) R _{thhc} (Θ _{hs} to Θ _{case})	1.3K/W	
最大纹波电流值 Max. ripple I _{rms}	250A	
$\hat{I}$	3 000A	
$\hat{I}_s$	9 000A	
U _s	1 200Vdc	
爬电距离 Creepage distance	55mm	
电气距离 Clearance	55mm	
预期寿命 Expected Lifetime	50 000hours (U _N , Θ _{hs} =85℃)	15 000hours (U _N , Θ _{hs} =105℃)
失效率 Failure rate	50FIT	
尺寸 Dimension(l × w × h)	361mm × 130mm × 92mm	

* Θ_{case}: 外壳温度;

* ESR: 电容器内部串联电阻总和;

* Θ_{hs} = Θ_{case} + I_{rms}² × ESR × R_{thhc}.* Θ_{case}: Temperature of case.

* ESR: The sum of all ohmic resistances occurring inside the capacitor.

