外形图 Outline Drawing

塑料外壳干式直流滤波电容器（温度 105℃）
DC-Link Capacitor
（Dr-Type, Plastic case, Temperature 105℃）

应用
Applications

- 交通工具，如：电动车、混合动力汽车
- Transportation: EV or HEV
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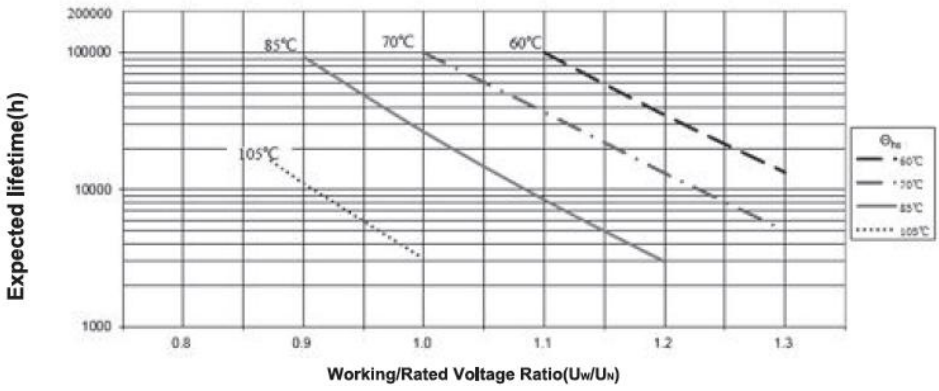
- 焊接设备，电梯，电机驱动
- Welders, Elevators, Motor Driver systems

特征
Features

- 直流滤波电路中，可替代电解电容
- 低等效串联电阻，高纹波电流处理能力
- 低电感
- 寿命时间长
- 自愈特性
- 树脂灌封

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

预期寿命曲线图 Expected lifetime curve



新能源电容产品编码规则（18 位）

The 18 digits part number is formed as follow.

型号代码：

Model type code:

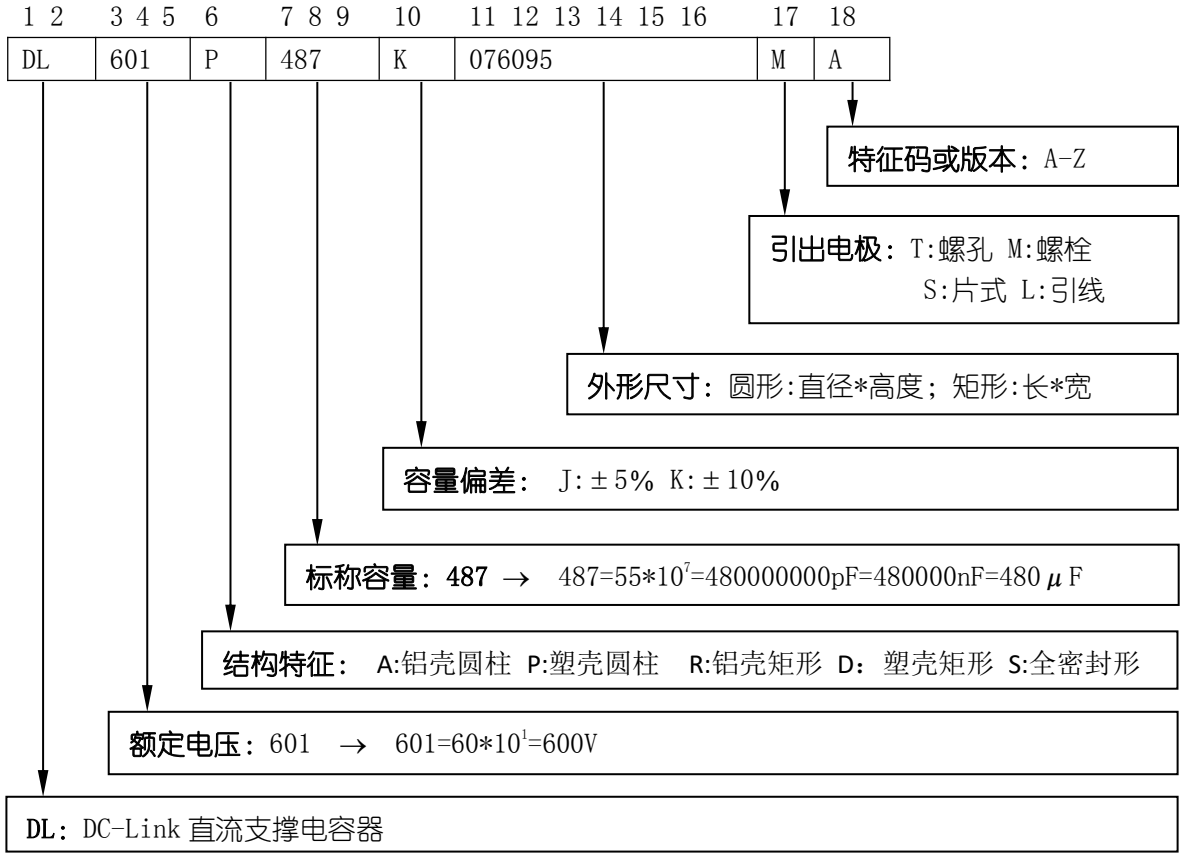
DL*** A:铝壳圆形干式直流滤波电容器 (Dry-Typ,Aluminum case)

DL*** P:塑壳圆形干式直流滤波电容器 (Dry-Typ,Plastic case)

DL*** R:铝壳矩形干式直流滤波电容器 (Dry-Typ,Rectangular Aluminum case)

DL*** D:塑壳矩形干式直流滤波电容器 (Dry-Typ,Rectangular Plastic case)

DL*** S:全密封形干式电容器 (Dry-Typ,Sealing Type case)



范例： 直流支撑电容器 450V500μF 10% 、片式、外形尺寸 230*62

编码： DL451R557K230062S**

技术要求 Specifications

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℃ [θ_{hs}≤105℃] θ_{hs} =85℃~105℃: decreasing factor 1.5% per℃ for U_N	
储存温度范围 Storage Temperature Range	-40℃~105℃	
额定电压 (Un) Rated Voltage	450Vdc~900Vdc	
额定容量 (Cn) Reted Capacitance	47~600μF	
电容量允许偏 Capacitance Tolerance	±5% (J)、±10% (K)	
耐电压 Voltage Proof	极间 Between Terminals	1.5Un (10S, 20±5℃)
	极壳 Between Terminals&Case	3KVac (60S, 50Hz, 20±5℃)
介质损耗 tgδ0	0.0002	
IR×Cn	≥5,000S(20℃, 100Vdc, 1min)	
过电压 Over Voltage	1.1U_N (30% of on-load-dur.)	
	1.15U_N (30min/day)	
	1.2U_N (5 min/day)	
	1.3U_N (1 min/day)	
	1.5U_N (30ms every time, 1,000 times during the life of the capacitor)	
最大使用海拔 Max. Altitude	2,000m	
最大电极扭矩 Max. Torque of terminals	M5:2.5Nm	M8:6.0Nm
最大安装扭矩 Max. Torque of Installation	3.0Nm	
安装 Installation	任意方向 Any Position	
最大电极扭矩 MAX Torque of terminals	5Nm	
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	

注：如果使用海拔高度超过 2,000m，应考虑海拔对对流冷却及外绝缘的影响。

The effect of altitude on convection cooling and external insulation should be taken into consideration, if the altitude exceeds 2,000m.

技术参数 Technical data

UN Vdc	CN μF	ESR @1KHz mΩ	Ls nH	Rth K/W	Î (A)	I (A)		Dimension		Weight Kg	Part Number
						60℃	80℃	D	H		
450	170	0.7	25	6.8	2,141	92	65	84.5	41	≈0.35	DL451P177J085041**
	260	0.9	32	5.3	2,240	97	65	84.5	50	≈0.40	DL451P267J085050**
	380	1.0	40	5.0	2,195	95	63	84.5	65	≈0.48	DL451P387J085065**
	380	1.0	40	5.2	2,195	93	62	83.2	65	≈0.47	DL451P387J083064**
	600	1.0	40	3.4	3,955	100	76	115.0	64	≈0.90	DL451P607J1150764**
600	100	0.8	25	6.8	2,164	88	58	84.5	41	≈0.35	DL601P107J085041**
	150	1.0	32	5.3	2,244	89	59	84.5	50	≈0.40	DL601P157J085050**
	220	1.1	40	5.0	2,169	89	59	84.5	65	≈0.48	DL601P107J085065**
	220	1.1	40	5.2	2,169	87	58	83.2	65	≈0.47	DL601P227J083065**
	350	1.0	40	3.4	3,879	100	76	115.0	64	≈0.90	DL601P357J115064**
800	66	0.8	25	6.8	1,907	91	61	84.5	41	≈0.35	DL801P666J085041**
	100	1.1	32	5.3	1,998	88	59	84.5	50	≈0.40	DL801P107J085050**
	140	1.3	40	5.0	1,843	83	55	84.5	65	≈0.48	DL801P147J085065**
	140	1.3	40	5.2	1,843	82	54	83.2	65	≈0.47	DL801P147J083065**
	230	1.1	40	3.4	3,404	100	73	115.0	64	≈0.90	DL801P237J115064**
900	47	1.0	25	6.8	1,620	78	52	84.5	41	≈0.35	DL901P476J085041**
	70	1.2	32	5.3	1,688	84	56	84.5	50	≈0.40	DL901P706J085050**
	100	1.3	40	5.0	1,570	83	55	84.5	65	≈0.48	DL901P107J085065**
	100	1.3	40	5.2	1,570	81	54	83.2	65	≈0.47	DL901P107J083065**
	160	1.2	40	3.4	2,824	70	70	115.0	64	≈0.90	DL901P167J115064**

*可依客户要求定制电容