

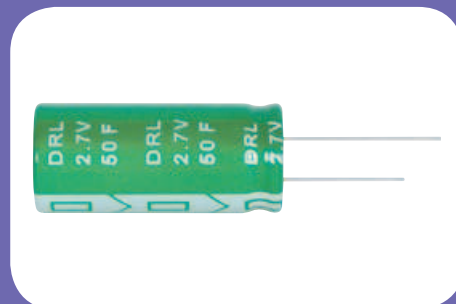
特性 Features

- 小型化，高容量，耐高温
Miniaturized, high capacitance and high temperature
- 快速充电/放电
Quick charge & discharge
- 符合RoHS无铅要求
RoHS directive compliant

推荐应用领域 Recommended Applications

- 消费类电器
Consumer Electronics
- 工业与汽车
Industrial and Automation
- 便携式电源工具
Portable Power Tools
- 再生能源储能系统
Renewable Energy Storage Systems
- 短期UPS (不间断电源)
Short Term UPS (Uninterruptible Power Supply)

规格 Specifications

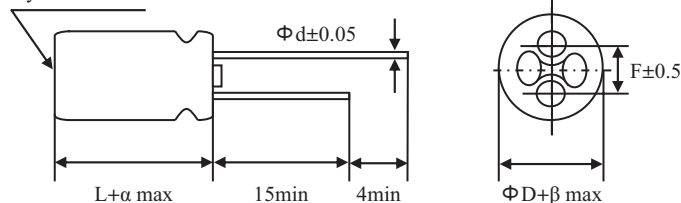


项目 Item		性能 Performance Characteristics	
温度 Temperature			
工作温度范围 Operating Temperature Range		-40°C to +60°C	
容量 Capacitance			
容量范围 Nominal Capacitance Range		0.3F to 650F	1200F to 3800F
容量公差 Capacitance Tolerance		±20% or -20%~+50%	-10%~+20%
电压 Voltage			
额定电压 Rated Voltage		2.7 V.DC	
浪涌电压 Surge Voltage		2.8 V.DC	
最大工作电压 Maximum Operating Voltage		2.7 V.DC	
阻抗 Resistance			
直流等值阻抗 ESR, DC		详见附件电性能列表 (表1) Please see the attached characteristics list (table 1)	
交流等值阻抗 ESR, AC		详见附件电性能列表 (1kHz/20°C) (表1) Please see the attached characteristics list (1kHz/20°C) (table 1)	
功率 Power			
功率 Pv		详见附件电性能列表 (表2) Please see the attached characteristics list (table 2)	
能量 Energy			
能量密度 Energy Density (Emax)		详见附件电性能列表 (表2) Please see the attached characteristics list (table 2)	
寿命 Lifespan			
贮存寿命 Shelf Life		+60°C下无负荷贮存1,000小时后电容器符合规定的限值 After 1,000 hours storage at +60°C without load, the capacitor shall meet the specified limits for endurance.	
耐用性 Endurance	+60°C下采用额定电压1,000小时后电容器符合以下限定值 After 1,000 hours application of rated voltage at +60°C, the capacitor shall meet the following limits.		
	容量变化 Capacitance Change	初始测试值的±30% ±30% of initial measured value	
	内阻 Internal Resistance	≤初始值的2倍 ≤2 times of initial specified value	
循环次数 Cycles			
循环次数 Cycles	在+25°C下，用恒定电流使电容器在规定电压和半额定电压间循环充放电 (500,000次) Capacitors cycles between specified voltage and half rated voltage under constant current at +25°C (500,000 cycles)		
	容量变化 Capacitance Change	初始测试值的±30% ±30% of initial measured value	
	内阻 Internal Resistance	≤初始值的2倍 ≤2 times of initial specified value	

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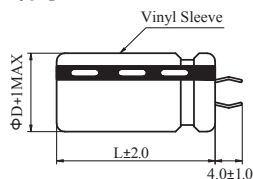
壳号尺寸表 Case Size Table

端子 Terminal: RR

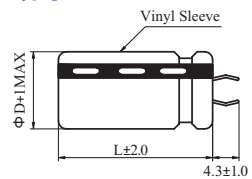
Safety vent for $\Phi \geq 6.3$ 

ΦD	8(L<20)	8(L≥20)	10	12.5	16	18
F	3.5	3.5	5.0	5.0	7.5	7.5
Φd	0.5	0.6	0.6	0.6	0.8	0.8
α	(L<20)1.5		(L≥20)2.0			
β	(D<20)0.5		(D≥20)1.0			

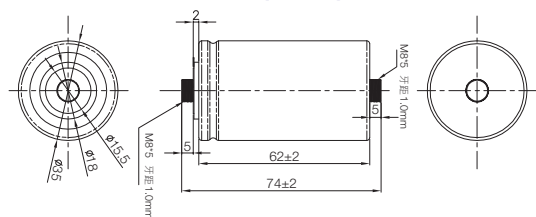
端子 Terminal: SC

 $\Phi D = \Phi 20 \sim \Phi 40$

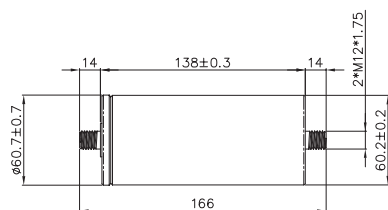
端子 Terminal: SZ

 $\Phi D = \Phi 20 \sim \Phi 40$

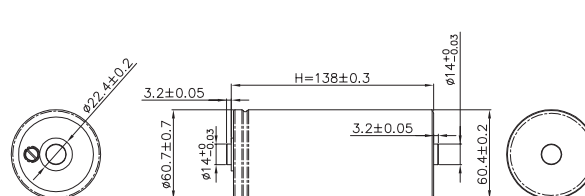
端子 Terminal: AD (350F)



端子 Terminal: A4 (3000F)



端子 Terminal: A3 (3000F)



Unit: mm

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电性能列表 Characteristics List

• 表1 Table 1

产品编码 Part Number	额定 电压 Rated Voltage (V.DC)	额定 容量 Rated Cap. (F)	尺寸 Size 直径 x 长度 ΦD x L (mm)	直流等值 阻抗 ESR, DC (mΩ) (max)	交流等值 阻抗 ESR, AC (mΩ) (max) at 1kHz/20°C	漏电流 Leakage Current (mA/72hrs)	短路电流 Short Circuit Current (A)	最大 持续电流 Maximum Continuous Current (A) (ΔT=15°C)	最大 峰值电流 Maximum Peak Current (Isc) (A)
DRL304S0TC11RR	2.7	0.3	4 x 11	1500	1000	0.006	1.80	0.2	0.50
DRL105S0TF12RR	2.7	1.0	8 x 12	850	400	0.008	3.17	0.4	0.73
DRL205S0TF16RR	2.7	2.0	8 x 16	470	280	0.010	5.74	0.5	1.39
DRL305S0TF20RR	2.7	3.0	8 x 20	250	160	0.012	10.8	0.8	2.31
DRL335S0TG20RR	2.7	3.3	10 x 20	270	160	0.014	10.0	0.8	2.36
DRL475S0TG20RR	2.7	4.7	10 x 20	250	140	0.016	10.8	0.9	2.92
DRL705S0TG25RR	2.7	7.0	10 x 25	200	100	0.020	13.5	1.0	3.94
DRL106S0TG30RR	2.7	10	10 x 30	130	80	0.030	20.7	1.4	5.87
DRL106S0TI25RR	2.7	10	12.5 x 25	140	80	0.030	19.3	1.4	5.63
DRL226S0TK25RR	2.7	22	16 x 25	85	40	0.060	31.7	2.1	10.3
DRL306S0TK30RR	2.7	30	16 x 30	60	30	0.070	45.0	2.7	14.5
DRL506S0TL40RR	2.7	50	18 x 40	40	25	0.160	67.5	4.0	22.5
DRL107S0TL60RR	2.7	100	18 x 60	28	20	0.300	96.4	5.8	35.5
DRL107S0TN45SC	2.7	100	22 x 45	28	18	0.300	96.4	5.8	35.5
DRL157S0TO55SC	2.7	150	25 x 55	25	16	0.550	108.0	7.0	42.6
DRL207S0TP50SC	2.7	200	30 x 50	20	15	0.700	135.0	8.3	54.0
DRL257S0TP55SC	2.7	250	30 x 55	18	13	0.800	150.0	9.1	61.4
DRL357S0TQ60SC	2.7	350	35 x 60	12	10	1.000	225.0	12.7	90.9
DRL357S0TQ60AD	2.7	350	35 x 60	2.4	2	1.000	1125	23.1	256
DRL657R0T660A4	2.7	650	60 x 60	0.8	0.65	2.300	3370	62.0	577
DRL128V0T680A4	2.7	1200	60 x 80	0.7	0.60	2.700	3857	64.0	880
DRL158V0T690A4	2.7	1500	60 x 90	0.6	0.50	3.000	4500	75.0	1065
DRL188V0T61MA4	2.7	1800	60 x 110	0.55	0.45	4.000	4909	85.0	1221
DRL208V0T61NA4	2.7	2000	60 x 120	0.45	0.40	5.000	6000	100.0	1421
DRL258V0T61YA4	2.7	2500	60 x 138	0.42	0.36	5.500	6429	106.0	1646
DRL308V0T61YA4	2.7	*3000	60 x 138	0.43	0.38	7.000	6279	105.0	1768
DRL308V0T61EA4	2.7	3000	60 x 155	0.40	0.35	7.000	6750	116.0	1840
DRL358R0T61FA4	2.7	3500	60 x 165	0.29	0.24	7.500	9300	123.0	2344
DRL388R0T61FA4	2.7	3800	60 x 165	0.28	0.22	7.800	9640	147.0	2485

* High Pd (W/kg) and Energy Density (Emax(Wh/kg))

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电性能列表 Characteristics List

• 表2 Table 2

额定容量 Rated Capacitance (F)	0.3	1	2	3	3.3	4.7	7	10	10	22	30
尺寸 Size 直径 x 长度 ΦD x L (mm)	4 x 11	8 x 12	8 x 16	8 x 20	10 x 20	10 x 20	10 x 25	10 x 30	12.5 x 25	16 x 25	16 x 30
功率密度 (W/kg) Power Density (W/kg)	2333	1338	1756	2647	1580	1645	1934	2057	1755	1650	1768
能量密度 Energy Density 最高能量值 Emax (Wh/kg)	1.2	1.3	1.9	2.3	1.6	2.2	3.1	3.1	2.8	3.6	3.7
最大能量 Maximum Energy 最高能量值 Emax (mAh)	0.31	1.01	2.03	3.04	3.34	4.76	7.09	10.1	10.1	22.3	30.4

额定容量 Rated Capacitance (F)	50	100	100	150	200	250	350	350	500	650
尺寸 Size 直径 x 长度 ΦD x L (mm)	18 x 40	18 x 60	22 x 45	25 x 55	30 x 50	30 x 55	35 x 60	35 x 60	35 x 95	60 x 60
功率密度 (W/kg) Power Density (W/kg)	1770	1625	1595	1144	1092	1078	1115	4288	848	5468
能量密度 Energy Density 最高能量值 Emax (Wh/kg)	4.1	5.3	5.2	5.0	5.1	5.6	5.4	4.16	4.9	3.3
最大能量 Maximum Energy 最高能量值 Emax (mAh)	50.6	101	101.00	151.80	202.50	253.10	354.3	354.3	506.25	243.80

额定容量 Rated Capacitance (F)	1200	1500	1800	2000	2500	*3000	3000	3500	3800
尺寸 Size 直径 x 长度 ΦD x L (mm)	60 x 80	60 x 90	60 x 110	60 x 120	60 x 138	60 x 138	60 x 155	60 x 165	60 x 165
功率密度 (W/kg) Power Density (W/kg)	4537	4773	4317	4813	4425	3614	3610	4571	4595
能量密度 Energy Density 最高能量值 Emax (Wh/kg)	4.4	5.0	4.9	5.0	5.4	5.4	5.0	5.4	5.7
最大能量 Maximum Energy 最高能量值 Emax (mAh)	1215.0	1518.8	1822.5	2025.00	2531.25	3037.5	3037.5	1312	1425.0

* High Pd (W/kg) and Energy Density (Emax(Wh/kg))

其它技术信息 Additional Technical Information

Ic = 25°C下72小时后的漏电流

Isc = 短路电流 (最大峰值电流)

R_{DC} = 直流内阻 (DC)

M = 电容器总重 (kg)

Ic = leakage current after 72 hours at 25°C

Isc = short circuit current (maximum peak current)

R_{DC} = internal resistance (DC)

M = capacitor mass (kg)

功率密度

 $Pd = (0.12 \times U^2 / R_{DC}) / M$

最高能量值

 $Emax = (0.5CU^2) / (3600 \times M)$

最大峰值电流 (1秒)

Maximum Peak Current (1 sec) = $0.5U / (ESR_{DC} + 1/C)$ 认证 Certifications : UL810a  (File No. MH49178)

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