

**SD Series**

**New**

**+105°C, Ultra Low Impedance(超低阻抗品)**

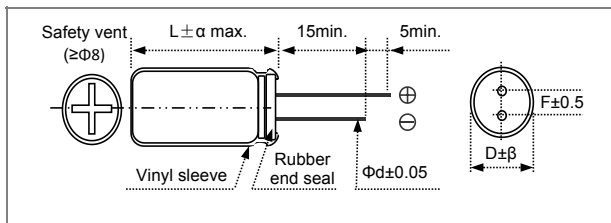
**FEATURES 特点**

- 1、Extremely reduced Impedance at high frequency range than SZ series.
- 2、Life time: 2000 hours at 105°C.

**SPECIFICATIONS 规格表**

Item 项目	Performance Characteristics 特性参数						
Operation Temperature Range 工作温度范围	-40 to +105°C						
Rated Working Voltage Range 额定电压范围	6.3 to 35 VDC						
Capacitance Tolerance 静电容量允许偏差	±20%(120Hz,+20°C)						
Leakage Current 漏电流	LC≤0.03CV or 3(μA) Whichever is greater measured after 2 minutes application of rated working voltage at +20 °C 施加额定工作电压充电2分钟后读数，二者取大值。						
Dissipaom Factor (tan δ) 损失角正切值 (120Hz,+20°C)	Working Voltage(v)	6.3	10	16	25	35	
	tan δ(max)	0.22	0.19	0.16	0.14	0.12	
For capacitance value >1000μF, add 0.02 per another 1000μF 标称容量值超过1000uF，则每增加1000uF，损失角正切值增加0.02							
Low Temperature characteristics 温度特性(阻抗比)	Impedance ratio max. at 120 Hz 阻抗比最大值						
	Working Voltage(V)	6.3	10	16	25	35	
	Z(-25°C)/ Z(+20°C)	2	2	2	2	2	
	Z(-40°C)/ Z(+20°C)	12	12	10	8	6	
High Temperature Loading (Endurance) 高温负荷寿命(耐久性)	Test conditions 试验条件			Post test requirements at +20°C 试验后特性应满足如下要求			
	Duration 持续时间	2,000 hours			Leakage current 漏电流	≤Initial specified value 初始规格值	
	Ambient temp. 环境温度	+105°C			Cap. Change 静电容量变化率	within ±25% of initial measured value 初始测试值的±25%内	
	Applied voltage 施加电压	DC voltage with maximum permissible ripple current specified at +105°C 施加直流电压与额定纹波电流(所加电压峰值 [DC+AC]不超过额定工作电压)			D.F.(tan δ) 损失角正切值	≤200% of initial specified value 2倍初始规格值	
				Before test requirement: Resumed 16 hours at normal temperature 测试前将电容在常温中放置16小时			
Other 其他	JIS C-5101 (IEC 60384)						

**CASE SIZE TABLE 尺寸图 (Unit : mm)**



ΦD	5	6.3	8(L<20)	8(L≥20)	10	13	16
F	2.0	2.5	3.5		5.0	5.0	7.5
Φd	0.5		0.5 or 0.6	0.6	0.6	0.6	0.8
α	(L<20) 1.5			(L≥20) 2.0			
β	(D<20) 0.5			(D≥20) 1.0			

**Multiplier for Ripple Current vs. Frequency 纹波电流频率修正系数**

Frequency Coefficient 频率系数

Cap(μF)	120Hz	1k Hz	10k Hz	100k Hz
~10	0.24	0.53	0.80	1.00
22~47	0.42	0.70	0.90	1.00
68~1000	0.55	0.77	0.94	1.00
≥1500	0.70	0.85	0.96	1.00

**Multiplier for Ripple Current vs. Temperature 纹波电流温度修正系数**

Temperature Coefficient 温度系数

Temperature	45°C	60°C	70°C	85°C	95°C	105°C
Multiplier	2.1	1.9	1.65	1.4	1.25	1.00

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**STANDARD RATINGS 标准品一览表**

Voltage(Code)		6.3V(0J)			10V(1A)			16V(1C)		
Cap.(μF)	Code	Case Size	Impedance	R.C	Case Size	Impedance	R.C	Case Size	Impedance	R.C
100	101				5×11	0.15	400	6.3×11	0.095	700
220	221				6.3×11	0.085	720	8×12	0.056	860
330	331	6.3×11	0.065	720				8×12	0.045	940
470	471				8×12	0.046	970	8×16	0.035	1300
1000	102	10×13	0.030	1390	8×20	0.030	1500	10×20	0.023	2000
1500	152	10×20	0.020	2000	10×20	0.018	2000	13×21	0.020	2200
2200	222	10×20	0.018	2100	13×21	0.015	2300	13×25	0.018	2600
3300	332	13×21	0.015	2400	13×25	0.013	2800			

Maximum Allowable Ripple Current (mA rms) at 105°C 100kHz

Case Size ΦD x L(mm)

Maximum Impedance (Ω) at 20°C 100kHz

Voltage(Code)		25V(1E)			35V(1V)					
Cap.(μF)	Code	Case Size	Impedance	Ripple	Case Size	Impedance	Ripple			
100	101	6.3×11	0.085	730						
220	221	8×12	0.065	870	10×13	0.035	1300			
330	331	8×16	0.045	1000	10×16	0.030	1750			
470	471	10×16	0.031	1700	13×17	0.020	2000			
1000	102	13×21	0.018	2100	13×25	0.018	2800			
1500	152	13×25	0.015	2700						

Maximum Allowable Ripple Current (mA rms) at 105°C 100kHz

Case Size ΦD x L(mm)

Maximum Impedance (Ω) at 20°C 100kHz

Specifications are subject to change without notice. Should a safety or technical concern arise regarding the product, please be sure to contact our sales offices or agents immediately