



## 公司简介

### Corporate Profile

扬州世和电子有限公司是中、日、韩合资企业，位于中国扬州市江阳工业园，紧邻国家级风景区蜀岗—瘦西湖。公司成立于2004年3月，投产于2005年9月，生产厂房面积5500平方米。公司一期投资总额300万美元，生产设备全部由韩国世和电子株式会社整体迁入，工艺技术、质量环保承续发展韩国世和电子株式会社原有体系，公司重要职位由多名来自韩国、日本和中国的业内资深行家担纲。

本公司主要研制、生产、销售薄膜电容器，可广泛应用于家电、通讯设备、汽车电子、绿色照明等诸多产品的配套，并生产专为等离子大屏幕显视设备（PDP）配套的高品质电容器。

我们将汇集国际先进理念、成熟技术和丰富经验，按国际标准进行生产，精细运作，竭诚为客户提供优质的产品和满意的服务。

Sehwa (Yangzhou) Eletronics Co., Ltd. is a joint venture between Chinese, Japanese and South Korean companies. It is located in Jiangyang Industrial Park of Yangzhou China, neighboring the state-level scenic area Shugang-Slender Lake Park. Founded in Mar. 2004, our company started business operation in Sept. 2005. It has workshop buildings in the area of 5500 square meters. The first stage investment of the company involves USD 3 millions with the production equipment completely from Sehwa(Korea) Eletronics Co., Ltd. . The technologies, quality and environment protection are inherited from Sehwa(Korea) Eletronics Co., Ltd. And many of the key positions are assumed by experienced professionals from South Korea, Japan and China.

Ours is mainly dedicated to the development, production and distribution of film capacitors, which are widely used in household electrical appliances, communication equipment, automobile electronics, environmentally friendly lighting facilities, etc. We also manufacture high quality capacitors for large screen plasma display panel.

With internationally advanced concept, mature technologies and rich experiences, we will manufacture according to international standards, providing customers with quality products and the best services.

## 经营理念 Business philosophy

- 忠诚信实 Trustworthiness and Sincerity
- 精益求精 Perfection and Excellence
- 共享成果 Sharing the Fruits of Success

## 质量方针 Quality Policy

- 致力产品研发 Full Efforts in R&D
- 全面提升品质 Enhancing product Quality
- 持续满足顾客要求 Customer Satisfaction for forever

■ 关于电流、损耗角正切值、损耗功率

About the current, dissipation factor(tanδ)、dissipated power

通过电容器的脉冲电流等于电容量与电压上升速率的乘积  
The current (I) is defined as voltage pulse slope(dV/dt) multiplied by the capacitance.

$$I = C \left( \frac{dV}{dt} \right)$$

损耗角正切值为加在电容器两端正弦波电压下有功功率与无功功率之比

The dissipation factor(tanδ) is the ratio between the resistive and the reactive part of the impedance of the capacitor submitted to a sinusoidal voltage of specified frequency.

$$\tan\delta = \frac{R}{X} \quad (\text{in } Z=R+jX)$$

损耗功率可以用下式计算

The dissipated power can be calculated as below.

$$P = \frac{\tan\delta}{\omega C} \times I^2 = ESR \times I^2$$

\*ESR: 表示特定频率下的等效电阻  
Equivalent series resistance at specified frequency

■ 交流电压与额定直流电压的换算表

Rated voltage derating in AC circuits

当直流电容器用于交流电路中, 电容器会发热, 请参照表1 选择相应的直流使用电压  
When a DC rated capacitor is used in AC circuits, the capacitor generates heat. Please use capacitors under the voltages in Table 1.

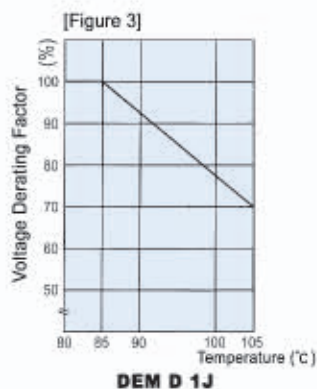
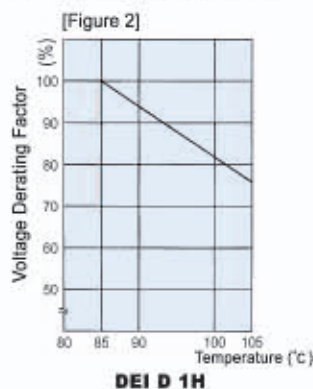
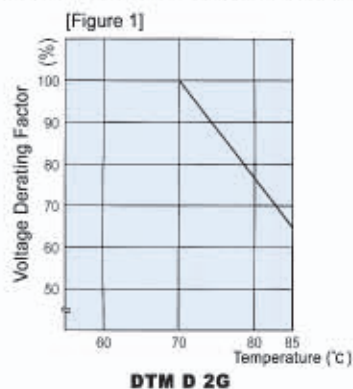
[表 1]  
[Table 1]

DC电压范围 (Vdc)	AC电压范围 (50Hz/60Hz)
50/60Vdc	30/40VAc
100Vdc	50/63VAc
200Vdc	100VAc/110VAc
250Vdc	125/160VAc
400Vdc	200VAc
630Vdc	220VAc
1000Vdc	250VAc/275VAc

■ 额定电压随温度变化的特性

Rated voltage derating versus operating temperature

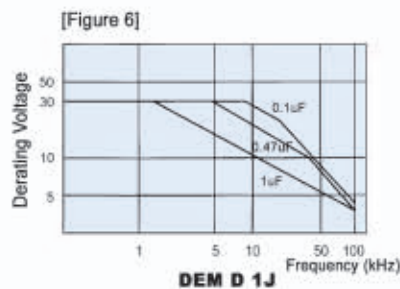
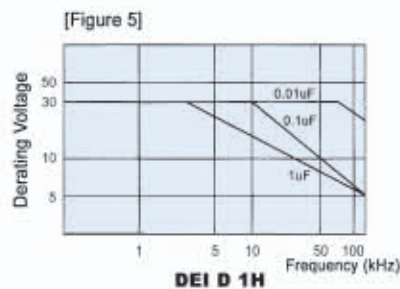
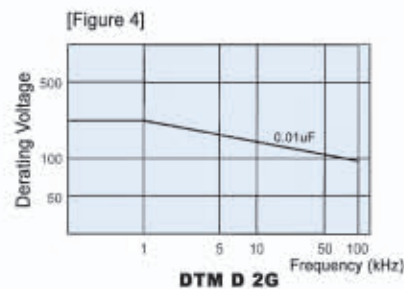
高温下使用电容器会缩短其使用寿命, 若必须在高温下使用电容器, 请参照以下图示的变化趋势。  
Use of a capacitor at high temperature shortens the capacitor life due to thermal deterioration. In using capacitors at high temperature, please apply the derating curves below. (Figure 1-3)



■ 额定电压随频率变化的特性

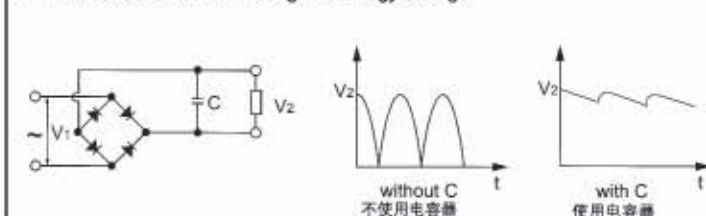
Rated voltage derating versus operating frequency

电容器在高频率环境下使用可能引起电容器的品质降低和由于发热而引起损坏, 请参照以下图示的变化趋势。  
Use of a capacitor at high frequency may cause the capacitor deterioration and damage due to self-heating. Please apply the derating curves below. (Figure 4-6)

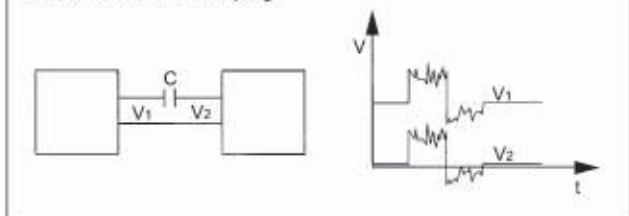


额定电压 Rated Voltage (VDC)	容量 Capacitance (µF)	容量范围 Capacitance Range					
		100[µF]	0.001[µF]	0.01[µF]	0.1[µF]	1.0[µF]	10.0[µF]
100 200	0.001~0.47 0.001~0.22						
50	0.001~0.47						
50/100/200	0.0003~0.1						
100~250 400 630	0.001~1.0 0.001~0.39 0.001~0.22						
800/1000 1250/1600 2000	0.001~0.047 0.001~0.047 0.001~0.015						
50/100	0.001~0.47						
100~250 400 630	0.01~10.0 0.01~1.0 0.01~2.2						
63~250 400 630	0.15~10.0 0.015~1.0 0.0047~0.47						
250 400 630	0.1~2.7 0.082~1.5 0.033~0.82						

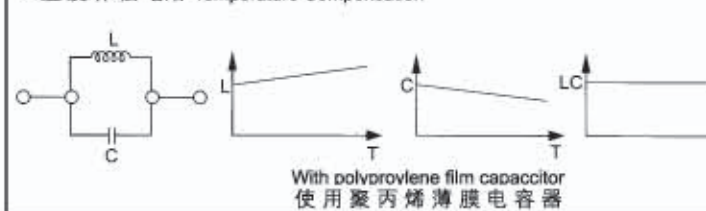
● 整流滤波电路 Smoothing and Energy Storage



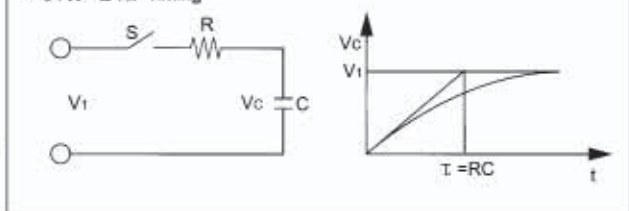
● 脉冲电路 Pulse Coupling



● 温度补偿电路 Temperature Compensation



● 积分电路 Timing



性能  
Feature

- 在高频状态下自感系数低  
Low self-inductance in high frequency
- 低损耗角正切值 ( $\tan\delta$ ): 在高频使用环境中发热小  
Low dissipation factor ( $\tan\delta$ ): low self-heating in high frequency
- 常温及恒温下电容量稳定  
Negative and constant temperature coefficient in capacitance
- 绝缘电阻值高  
High insulation resistance
- 在全部工作频率范围内具有非常稳定的电容量  
Very stable capacitance in entire working frequency range
- 耐大电流能力强 (与DTM比较)  
High current handling capacity (compared with DTM type)

用途  
Application

- 通讯设备, 高频电路  
Communication equipment, high frequency circuits
- 脉冲电路, 定时电路  
pulse circuits, time constant circuits
- 节能灯及电子镇流器  
energy-saving lamps and electronic lighting ballasts

试验方法  
Test Method (KS C 6035, JIS C 5102)

• 湿热老化试验  
Damp Heat Endurance Test

- 试验条件  
Test Condition

温度 Temperature	+40°C ± 2°C
湿度 Relative humidity	90~95%
耐久性试验 Test duration	240 hrs

- 性能参数  
Performance

电容量变化率 ( $\Delta C/C$ ) Capacitance change ( $\Delta C/C$ )	≤ ± 5%
损耗角正切值变化率 ( $\Delta \tan\delta/\tan\delta$ ) Dissipation factor change ( $\Delta \tan\delta/\tan\delta$ )	≤ 20%
绝缘电阻值变化率 ( $\Delta IR/IR$ ) Insulation resistance ( $\Delta IR/IR$ )	≤ 50%

• 高温负荷试验  
High Temperature Endurance Test

- 试验条件  
Test Condition

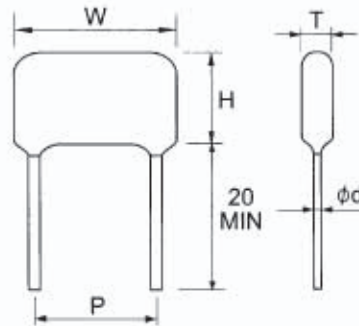
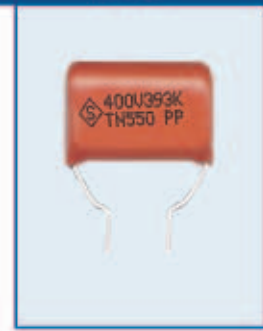
温度 Temperature	+85°C ± 2°C
耐久性试验 Test duration	1,000 (hrs)
试验电压 Voltage applied	1.4 × Ur (Rated voltage)

规格  
Specification

电极 Electrode	铝箔 Aluminium foil	
介质 Dielectric	聚丙烯薄膜 Polypropylene film	
外观 Appearance	用有光泽的阻燃环氧树脂包封 Flame retardant epoxy resin dipped	
工作温度范围 Operational temperature range	-40~+70 (85)°C	
额定电压和电容量 Rated Voltage & Capacitance	100V 250V 400V 630V	0.001~1.0 μF 0.001~1.0 μF 0.001~0.39 μF 0.001~0.22 μF
电容量允许偏差 Capacitance tolerance	±3% (H), ±5% (J), ±10% (K), ±20% (M)	
损耗角正切 ( $\tan\delta$ ) Dissipation factor ( $\tan\delta$ )	≤ 0.0005 at 1KHz (C ≤ 1.0 μF) ≤ 0.0005 at 10KHz (C ≤ 1.0 μF)	
试验电压 Test voltage	250% of rated voltage for 5 seconds	
绝缘电阻 Insulation resistance	≥ 30,000 MΩ at 20°C (C < 0.33 μF) ≥ 10,000 Ω · F at 20°C (C ≥ 0.33 μF)	

- 性能参数  
Performance

电容量变化率 ( $\Delta C/C$ ) Capacitance change ( $\Delta C/C$ )	≤ ± 5%
损耗角正切值变化率 ( $\Delta \tan\delta/\tan\delta$ ) Dissipation factor change ( $\Delta \tan\delta/\tan\delta$ )	≤ 10%
绝缘电阻值变化率 ( $\Delta IR/IR$ ) Insulation resistance ( $\Delta IR/IR$ )	≤ 50%



外形尺寸  
Dimensions

(mm)

R.V. CAP. (μF)	100Vdc						250Vdc						400Vdc						630Vdc					
	W MAX	H MAX	T MAX	P ±1.0	φd		W MAX	H MAX	T MAX	P ±1.0	φd		W MAX	H MAX	T MAX	P ±1.0	φd		W MAX	H MAX	T MAX	P ±1.0	φd	
0.0010	11.0	10.0	5.5	7.5	0.8		19.5	12.0	7.0	15.0	0.8		19.5	12.0	7.0	15.0	0.8		19.5	12.0	7.0	15.0	0.8	
0.0012																								
0.0015																								
0.0018																								
0.0022																								
0.0027																								
0.0033		10.0																						
0.0039		10.5																						
0.0047																								
0.0056																								
0.0062																								
0.0068																								
0.0082																								
0.010																								
0.012																								
0.015		10.5		7.5																				
0.018		11.0		10.0																				
0.022		11.5	5.5																					
0.027		12.0	6.5																					
0.033		13.0	7.0	10.0																				
0.039	11.0	13.0	6.0	15.0																				
0.047	20.0	12.5	7.5																					
0.056		13.0	6.0																					
0.068		13.5	6.5																					
0.082		14.0	7.0																					
0.10		14.0	7.5																					
0.12		15.0	8.0																					
0.15		15.0	8.5																					
0.18		16.5	9.5																					
0.22		17.0	10.5																					
0.25	20.0	18.0	11.5	15.0																				
0.27	30.0	17.5	9.0	25.0																				
0.30		17.5	9.0																					
0.33		18.5	10.0																					
0.36		19.0	11.0																					
0.39		19.0	11.0																					
0.42		20.0	12.0																					
0.47		20.0	12.0																					
0.51		21.0	12.5																					
0.56		21.0	12.5																					
0.60		22.0	13.5																					
0.68		22.0	13.5																					
0.75		23.5	15.0																					
0.82		23.5	15.0																					
1.0	30.0	26.0	16.5	25.0	0.8		30.0	26.0	16.5	25.0	0.8		30.0	26.0	16.5	25.0	0.8		30.0	26.0	16.5	25.0	0.8	

■ 性能

Feature

- 在高频状态下自感系数低  
Low self-inductance in high frequency
- 低损耗角正切值 ( $\tan\delta$ ): 在高频使用环境中发热小  
Low dissipation factor ( $\tan\delta$ ): low self-heating in high frequency
- 常温及恒温下电容量稳定  
Negative and constant temperature coefficient in capacitance
- 绝缘电阻值高  
High insulation resistance
- 在全部工作频率范围内具有非常稳定的电容量  
Very stable capacitance in entire working frequency range
- 自愈能力强, 可靠性高, 寿命长  
Self-healing property, High reliability and long life

■ 用途

Application

- 通讯设备, 高频电路  
Communication equipment, high frequency circuits,
- 脉冲电路, 定时电路  
pulse circuits, time constant circuits
- 一般应用  
General purpose

■ 试验方法

Test Method (KS C 6035, JIS C 5102)

• 湿热老化试验

Damp Heat Endurance Test

- 试验条件

Test Condition

温度 Temperature	+40°C ± 2°C
湿度 Relative humidity	90~95%
耐久性试验 Test duration	240 hrs

- 性能参数

Performance

电容量变化率 ( $\Delta C/C$ ) Capacitance change ( $\Delta C/C$ )	≤ ± 5%
损耗角正切值变化率 ( $\Delta \tan\delta/\tan\delta$ ) Dissipation factor change ( $\Delta \tan\delta/\tan\delta$ )	≤ 10%
绝缘电阻值变化率 ( $\Delta IR/IR$ ) Insulation resistance ( $\Delta IR/IR$ )	≤ 50%

• 高温负荷试验

High Temperature Endurance Test

- 试验条件

Test Condition

温度 Temperature	+85°C ± 2°C
耐久性试验 Test duration	1,000 (hrs)
试验电压 Voltage applied	1.25 × Ur (Rated voltage)

■ 规格

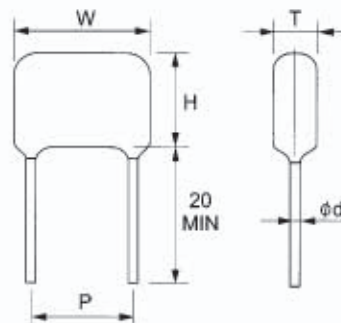
Specification

电极 Electrode	真空镀膜铝膜及真空镀锌铝膜 Vacuum deposited aluminium (or Zn-AL)	
介质 Dielectric	聚丙烯薄膜 Polypropylene film	
外观 Appearance	用有光泽的阻燃性环氧树脂包封 Flame retardant epoxy resin dipped	
工作温度范围 Operational temperature range	-40~+70 (85)°C	
额定电压和电容量 Rated Voltage & Capacitance	250V 400V 630V	0.1~2.7 μF 0.082~1.5 μF 0.033~0.82 μF
电容量允许偏差 Capacitance tolerance	±3% (H), ±5% (J), ±10% (K), ±20% (M)	
损耗角正切 ( $\tan\delta$ ) Dissipation factor ( $\tan\delta$ )	≤ 0.0008 at 1KHz (C ≤ 1.0 μF) ≤ 0.0008 at 10KHz (C ≤ 1.0 μF)	
试验电压 Test voltage	额定电压值的175% 持续5秒 175% of rated voltage for 5 seconds	
绝缘电阻 Insulation resistance	≥ 30,000 MΩ at 20°C (C < 0.33 μF) ≥ 10,000 Ω · F at 20°C (C ≥ 0.33 μF)	

- 性能参数

Performance

电容量变化率 ( $\Delta C/C$ ) Capacitance change ( $\Delta C/C$ )	≤ ± 5%
损耗角正切值变化率 ( $\Delta \tan\delta/\tan\delta$ ) Dissipation factor change ( $\Delta \tan\delta/\tan\delta$ )	≤ 10%
绝缘电阻值变化率 ( $\Delta IR/IR$ ) Insulation resistance ( $\Delta IR/IR$ )	≤ 50%



■ 外形尺寸  
Dimensions

(mm)

R.V. CAP. (uF)	D	250VDC					400VDC					630VDC				
		W MAX	H MAX	T MAX	P ±1.0	φd	W MAX	H MAX	T MAX	P ±1.0	φd	W MAX	H MAX	T MAX	P ±1.0	φd
0.047												19.5	15.5	7.0	15.0	0.8
0.056												19.0	16.0	8.0		
0.068												19.0	17.0	8.5		
0.082							19.0	15.5	7.0	15.0	0.8	19.0	17.5	9.5	15.0	
0.10		19.0	13.0	7.0	15.0	0.8		16.0	8.0			26.0	16.5	8.5	22.5	
0.12			13.5	7.5				17.0	8.5				17.5	9.0		
0.15			14.0	8.0			19.0	17.0	9.0	15.0			18.5	10.0		
0.18			15.0	8.5			26.0	17.0	9.0	22.5			19.0	11.0		
0.20			17.0	9.0				17.5	9.5				20.5	12.0		
0.22			16.0	9.5				17.5	9.5				20.5	12.0		
0.25			17.0	10.0				18.0	10.0				21.5	13.0		
0.27			17.0	10.0				18.5	10.0				21.5	13.0		
0.30			18.5	10.5				18.5	11.0				22.5	14.0		
0.33			18.0	11.0				19.0	11.0				22.5	14.0		
0.36			19.0	12.0				19.5	11.5				24.0	16.0		
0.39		19.0	19.0	12.0	15.0			19.5	12.0			26.0		16.0	22.5	
0.42		26.0	18.5	10.0	21.5			20.5	13.0			31.0		15.5	27.5	
0.47			17.0	10.5				21.5	13.0				24.0	15.5		
0.51			18.0	11.0				22.5	13.5				25.5	17.5		
0.56			18.0	11.0				22.5	14.0				25.5	17.5		
0.60			19.0	12.5				23.5	14.5				27.0	19.0		
0.68			19.0	12.5				24.0	14.5				27.0	19.0		
0.82			21.5	13.0			26.0	25.0	17.0	22.5		31.0	28.5	20.0	27.5	0.8
1.0		26.0	22.5	14.0			31.0	27.0	18.5	27.5						
1.2		32.0	24.0	15.5	21.5		31.0	27.0	18.5	27.5						
1.5		31.0	24.0	15.0	26.5		31.0	29.0	20.5	27.5	0.8					
1.8		31.0	26.0	17.5												
2.2		32.0	27.5	19.5												
2.7			30.0	19.5	26.5	0.8										

■ 性能  
Feature

- 在高频状态下自感系数低  
Low self-inductance in high frequency
- 全系列内串结构, 适用于中高电压场合  
Series electrode construction: high rated voltage
- 低损耗角正切值 ( $\tan\delta$ ): 在高频使用环境中发热小  
Low dissipation factor( $\tan\delta$ ): low self-heating in high frequency
- 常温, 恒温下电容量稳定  
Negative and constant temperature coefficient in capacitance
- 在全部工作频率范围内具有非常稳定的电容量  
Very stable capacitance in entire working frequency range
- 绝缘电阻值高  
High insulation resistance
- 自愈能力强, 可靠性高, 寿命长  
Self-healing property: High reliability and long life
- 具有承受高电压, 大电流冲击的能力  
High voltage pulse and high current handling capacity

■ 用途  
Application

- 电力设施 (特别是SMPS)  
Power electronics (especially SMPS),
- 电视机行扫描电路  
horizontal resonance circuits of TV, monitor
- 高频脉冲电路  
High frequency circuits, pulse circuits
- 节能灯电子镇流器  
energy-saving lamps and electronic lighting ballasts

■ 试验方法  
Test Method (KS C 6035, JIS C 5102)

• 湿热老化试验  
Damp Heat Endurance Test

- 试验条件  
Test Condition

温度 Temperature	+40°C ± 2°C
湿度 Relative humidity	90~95%
耐久性试验 Test duration	240 hrs

- 性能参数  
Performance

电容量变化率 ( $\Delta C/C$ ) Capacitance change ( $\Delta C/C$ )	≤ ± 5%
损耗角正切值变化率 ( $\Delta \tan\delta/\tan\delta$ ) Dissipation factor change ( $\Delta \tan\delta/\tan\delta$ )	≤ 20%
绝缘电阻值变化率 ( $\Delta IR/IR$ ) Insulation resistance ( $\Delta IR/IR$ )	≤ 50%

• 高温负荷试验  
High Temperature Endurance Test

- 试验条件  
Test Condition

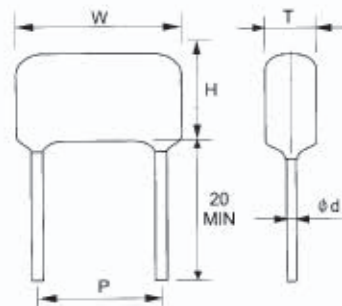
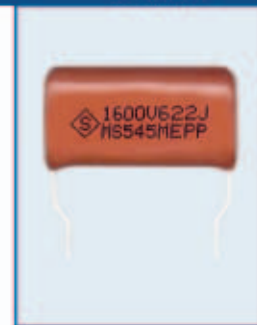
温度 Temperature	+85°C ± 2°C
耐久性试验 Test duration	1,000 (hrs)
试验电压 Voltage applied	1.25 × Ur (Rated voltage)

■ 规格  
Specification

电极 Electrode	铝箔及双面金属化薄膜 Aluminium foil & Double side metallized film	
介质 Dielectric	聚丙烯薄膜 Polypropylene film	
外观 Appearance	用有光泽的阻燃性环氧树脂包封 Flame retardant epoxy resin dipped	
工作温度范围 Operational temperature range	-40°C ~ +70(85)°C	
额定电压和电容量 Rated Voltage & Capacitance	800V 1000V 1250V 1600V 2000V	0.001 ~ 0.047 μF 0.001 ~ 0.047 μF 0.001 ~ 0.047 μF 0.001 ~ 0.047 μF 0.001 ~ 0.047 μF
电容量允许偏差 Capacitance tolerance	± 1% (F), ± 2% (G), ± 3% (H), ± 5% (M)	
损耗角正切 ( $\tan\delta$ ) Dissipation factor ( $\tan\delta$ )	≤ 0.0005 at 1KHz (C ≤ 0.047 μF) ≤ 0.0005 at 10KHz (C ≤ 0.047 μF)	
试验电压 Test voltage	额定电压值的175% 持续5秒 175% of rated voltage for 5 seconds	
绝缘电阻 Insulation resistance	≥ 30,000 MΩ at 20°C (C < 0.047 μF)	

- 性能参数  
Performance

电容量变化率 ( $\Delta C/C$ ) Capacitance change ( $\Delta C/C$ )	≤ ± 5%
损耗角正切值变化率 ( $\Delta \tan\delta/\tan\delta$ ) Dissipation factor change ( $\Delta \tan\delta/\tan\delta$ )	≤ 10%
绝缘电阻值变化率 ( $\Delta IR/IR$ ) Insulation resistance ( $\Delta IR/IR$ )	≤ 50%



■ 外形尺寸  
Dimensions

(mm)

R.V. CAP. (μF)	800VDC						1000VDC						1250VDC						1600VDC						2000VDC						
	W MAX	H MAX	T MAX	P ±1.0	φd		W MAX	H MAX	T MAX	P ±1.0	φd		W MAX	H MAX	T MAX	P ±1.0	φd		W MAX	H MAX	T MAX	P ±1.0	φd		W MAX	H MAX	T MAX	P ±1.0	φd		
0.0010	20.0	10.0	6.0	16.0	0.8		23.0	11.0	6.0	17.5	0.8		23.0	11.0	6.0	17.5	0.8		23.0	12.0	7.0	17.5	0.8		23.0	13.0	8.0	17.5	0.8		
0.0012								11.5	6.0												13.5	7.5									
0.0015								12.0	6.5													14.5	8.0								
0.0018		10.0	6.3																			15.0	8.5								
0.0020		10.5	6.5																			15.5	9.0								
0.0022		10.5						12.0	6.5													15.5	9.5								
0.0025		11.0						12.5	7.0													16.0	10.0								
0.0027		11.0	6.5					12.5														16.0	10.0								
0.0030		11.5	7.0					13.5														17.0	10.0								
0.0033		11.5	7.0					13.5	7.0													17.0	10.0								
0.0036		12.0	7.0					14.0	7.5													17.5	10.0								
0.0039		12.5	7.5					14.0	7.5													17.5	10.0								
0.0047		13.0	8.0					15.0	9.0													18.0	10.0								
0.0051		13.5	8.0																			18.5	10.5								
0.0053		13.5	8.0																			18.5	10.5								
0.0054		14.0	8.5																			19.0	11.0								
0.0056		14.0	8.5																												
0.0060		14.5	9.0					23.0	15.0	9.0	17.5											17.0	10.0								
0.0062		14.5	9.0					29.0	14.5	8.0	28.5											17.5	11.0								
0.0068		14.5	9.0																			17.5	11.0								
0.0073		16.0	9.5					14.5	8.0													18.0	11.5								
0.0082		16.0	9.5					14.5	8.0													18.5	12.0								
0.0091		16.0	9.5					16.0	9.5													18.5	12.0								
0.010		20.0	17.0	10.0	16.0			16.0	8.5													19.0	12.5								
0.012		23.0	16.0	9.5	17.5			15.5	9.0													19.0	12.0								
0.015		23.0	17.0	10.0	17.5			16.0	9.5													19.0	12.0								
0.018		23.0	18.0	11.0	17.5			17.0	10.0													20.0	13.0								
0.022		28.5	15.5	9.0	24.5			18.0	11.0													21.0	14.0								
0.027			16.5	9.5				19.0	12.0													21.0	13.5								
0.033			17.5	10.5				20.0	13.0													21.0	13.5								
0.039			18.5	11.5				21.0	14.0													21.5	14.0								
0.047		28.5	19.5	12.5	24.5	0.8		22.0	15.0	28.5												23.0	15.5	28.5							
								29.0	22.0	35.0												29.0	23.0	35.0							
								41.0	20.0	35.0	0.8											41.0	20.0	35.0	0.8						
								41.0	20.0	35.0	0.8											41.0	20.0	35.0	0.8						
								41.0	22.5	35.0	0.8											41.0	23.0	35.0	0.8						
								41.0	22.5	14.5	35.0	0.8										40.0	23.5	16.0							
								41.0	22.5	14.5	35.0	0.8										40.0	25.0	17.5	35.0	0.8					



性能  
Feature

- 成本低廉, 体积小 (与DTM比较)  
Low cost and small size (compared with DTM)
- 在高频状态下自感系数低 (无感)  
Low self-inductance in high frequency
- 容量可靠, 随温度变化小  
Positive temperature coefficient in capacitance
- 自愈能力强, 可靠性高, 寿命长  
Self-healing property, High reliability and long life

用途  
Application

- 通讯设备  
Communication equipment
- 脉冲电路  
pulse circuits
- 一般应用  
General purpose

试验方法

Test Method (KS C 6035, JIS C 5102)

- 湿热老化试验  
Damp Heat Endurance Test

- 试验条件  
Test Condition

温度 Temperature	+40°C ± 2°C
湿度 Relative humidity	90 ~ 95%
耐久性试验 Test duration	240 hrs

- 性能参数  
Performance

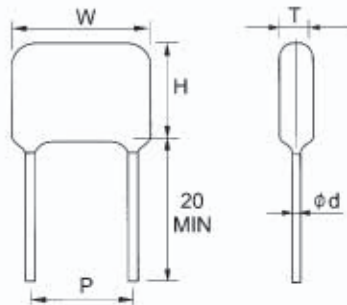
电容量变化率 ( $\Delta C/C$ ) Capacitance change ( $\Delta C/C$ )	$\leq \pm 10\%$
损耗角正切值变化率 ( $\Delta \tan\delta/\tan\delta$ ) Dissipation factor change ( $\Delta \tan\delta/\tan\delta$ )	$\leq 10\%$
绝缘电阻值变化率 ( $\Delta IR/IR$ ) Insulation resistance ( $\Delta IR/IR$ )	$\leq 30\%$

- 高温负荷试验

High Temperature Endurance Test

- 试验条件  
Test Condition

温度 Temperature	+85°C ± 2°C
耐久性试验 Test duration	1,000 (hrs)
试验电压 Voltage applied	1.25 × Ur (Rated voltage)



规格  
Specification

电极 Electrode	真空镀膜 Vacuum deposited aluminium
介质 Dielectric	聚酯薄膜 Polyester film
外观 Appearance	用有光泽的阻燃性环氧树脂封装 Flame retardant epoxy resin dipped
工作温度范围 Operational temperature range	-25°C ~ +85°C
额定电压和电容量 Rated Voltage & Capacitance	100V 0.01 ~ 10.0 μF 250V 0.01 ~ 10.0 μF 400V 0.01 ~ 2.2 μF 630V 0.01 ~ 1.0 μF
电容量允许偏差 Capacitance tolerance	± 5% (J), ± 10% (K), ± 20% (M)
损耗解正切 (tanδ) Dissipation factor (tanδ)	$\leq 0.008$ at 1KHz (C ≤ 1.0 μF) $\leq 0.012$ at 10KHz (C ≤ 1.0 μF)
试验电压 Test voltage	额定电压值的175% 持续5秒 175% of rated voltage for 5 seconds
绝缘电阻 Insulation resistance	$\geq 9,000M\Omega$ at 20°C (C < 0.33 μF) $\geq 3,000\Omega \cdot F$ at 20°C (C ≥ 0.33 μF)

- 性能参数  
Performance

电容量变化率 ( $\Delta C/C$ ) Capacitance change ( $\Delta C/C$ )	$\leq \pm 3\%$
损耗角正切值变化率 ( $\Delta \tan\delta/\tan\delta$ ) Dissipation factor change ( $\Delta \tan\delta/\tan\delta$ )	$\leq 10\%$
绝缘电阻值变化率 ( $\Delta IR/IR$ ) Insulation resistance ( $\Delta IR/IR$ )	$\leq 30\%$





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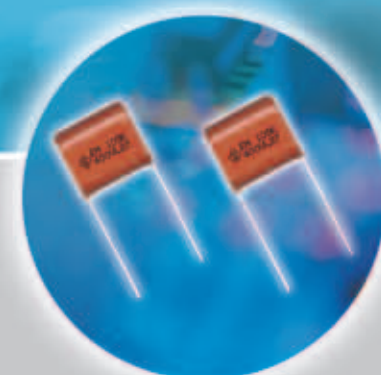
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