



规格承认书
APPROVAL SHEET

客户名称 CUSTOMERS :			
日期 DATE :			
产品名称 PRODUCT :	贴片玻璃气体放电管		
物料代号 PART NO :	Customer:	版本 REV :	2019. A
	JieShyang:		

客户承认签印 CUSTOMER APPROVED BY	核准 APPROVE	审核 REVIEWED	承办 RESPONSIBLE
APPROVED NO :	ECN :		
MODEL :			
CUSTOMER P/N :			

JIESHYANG ELECTRONICS (WUJIANG) CO., LTD

一. 範圍: 本規格書為玻璃管型突波吸收器之系列產品.

. Scope: This specification covers the series products of the tube type of Surge Absorber.

二. 製品型名:

. Part Number System :

JSE----201----M----SMD----2040

1	2	3	4	5
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1. 捷祥电子产品品牌 .

JIESHYANG Electronics Series Name.

2. 直流放電電壓, 前两位为有效数. 第三位數字為 10^1 . 例如 201 為 $20 \times 10^1 = 200$.

DC Spark-Over Voltage. The first two digits are a multiplicand.

The third number is 10^1 . example : 201 means $20 \times 10^1 = 200$. (DC Spark-Over Voltage).

3. 直流放電電壓容許誤差值.

Tolerance of DC Spark-Over Voltage

L	M	N
± 15%	± 20%	± 30%

4. 包裝形態.

Packaging

SMD
帶裝 Taping

5. 玻璃管尺寸 $\phi 2.0 \times 4.0$ MM

Glass Tube Dimension $\phi 2.0 \times 4.0$ MM

三. 溫度範圍.

Temperature range

(1) 使用溫度範圍 -45°C ----- $+125^\circ\text{C}$.

Working temperature range: -45°C ----- $+125^\circ\text{C}$.

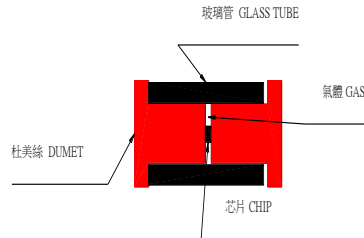
(2) 保存溫度範圍 -45°C ----- $+85^\circ\text{C}$.

Storing temperature range: -45°C ----- $+85^\circ\text{C}$.

四. 製品結構.

五. 製品尺寸.

Structure



Dimension

Symbol	Dimension (mm)
L	4.0±0.5
D	Φ2.1±0.5
d	Φ2.0±0.5
t	0.4±0.1

Symbol	Dimension (mm)
Recommended Pad Size	1.2 x 2.4 x 1.2

六. 规格型号

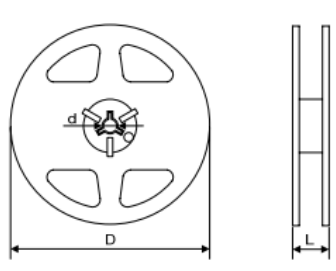
Specification

Part Number	DC Spark-Over Voltage Vs(V)	Insulation Resistance IR(OHM)/DCV	Electrostatic Capacitance 1KHz-6Vmax C(pF)	Surge current capacity 8/20us	Surge Life Test
JSE141N-SMD-2040	140(98~182)	> 100M/50V	<1.0	500A	1kHz-10KV Max ((10X700µsec-400 0V 100A 10 time)
JSE181N-SMD-2040	180(126-234)	>100M/50V			
JSE201M-SMD-2040	200(160-240)	>100M/100V			
JSE301M-SMD-2040	300(240-360)				
JSE401M-SMD-2040	400(320-480)				
JSE501M-SMD-2040	500(400-600)	>100M/250V			

七. 包装方式:

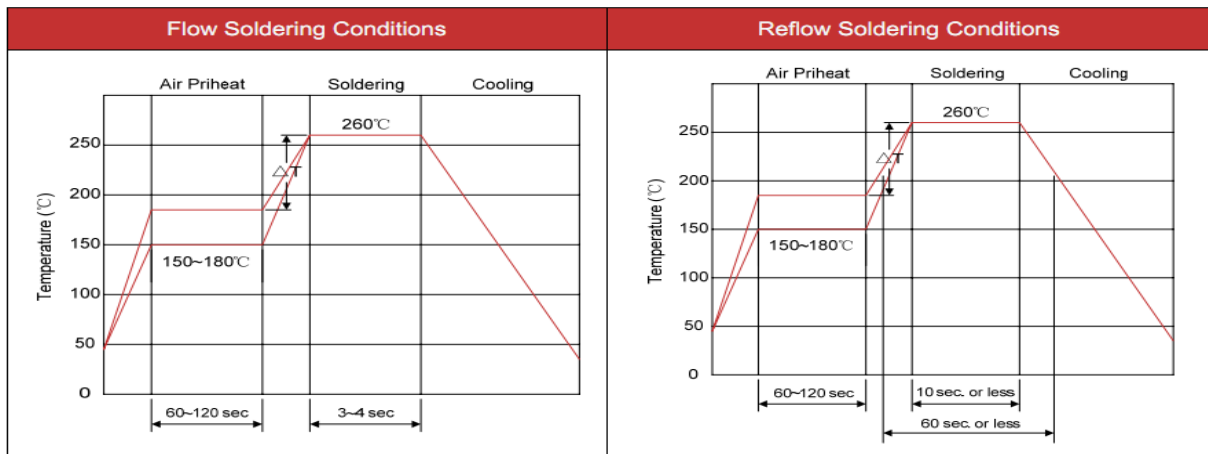
Taping:

Symbol	Dimension (mm)
W	12.00±0.20
P0	4.00±0.10
P1	4.00±0.10
P2	2.00±0.05
D0	Φ1.5±0.05
D1	Φ1.0±0.10
E	1.75±0.10
F	5.50±0.05
A0	2.40±0.10
B0	4.50±0.10
K0	2.50±0.10
T	0.25±0.05

	D	178.0
	d	13.0
	L	15.0
	Quantity: 2000PCS	

七. 焊锡曲线

Recommended Soldering Conditions).Solder Characteristics.



八. 基本特性.

Initial Characteristics.

項目 Test Item	測試條件 Test Method	規格值 Specification
直流放電電壓 DC Spark-Over VoltageVs(V)	逐漸地增加測量使用直流電壓,即可知其開始電壓.測定電流為一毫安與測定時間最大為一秒(1sec).(1mA) Add and measure the DC Voltage gradually Maxto get the discharge threshold voltage. The measuring current is 1mA/1 second max.	依仕様值而定 It depends on each spec.
內絕緣電阻 Insulation Resistance	在規定的設定直流電壓下,跨在兩端引線即測量其內絕緣電阻值. Measure the insulation resistance of two end of leadwire under the specified DC voltage.	100MΩ 或大於 100MΩ 100MΩ min.
靜電電容 Capacitance C(pF)	使用頻率 1KHz 與小於或等於 6V 直流電壓之電源即測量其靜電電容量. Measure the Electrostatic Capacitance under the test condition of 1KHz,DC 6V(max)	1PF 或小於 1PF (1pF max.)

九. 環境試驗.

Enviromental Characteristics.

試驗項目 Test Item	試驗方法 Test Method	性能 Characteristics
耐寒性(依據 JIS C0020) Cold Resistance JIS C0020	放置於 $-40^{\circ}\text{C} \pm 3^{\circ}\text{C}$ 之環境中 1000 小時後,取出置於常溫常濕中 4 小時後,檢測直流開始放電電壓,絕緣阻抗,靜電容量及檢查外觀 After $-40 \pm 3^{\circ}\text{C}$ (1000hrs) / room temp., normal humidity(4 hrs) cycle, measure the properties.	滿足各個特性之規格值 Within standard mentioned in Initial Characteristics.
耐熱性(依據 JIS C0021) Heat Resistance JIS C0021	放置於 $125^{\circ}\text{C} \pm 2^{\circ}\text{C}$ 之環境中 1000 小時後,取出置于常溫常濕中 4 小時後,檢測直流開始放電電壓,絕緣阻抗,靜電容量及檢查外觀 After $125 \pm 2^{\circ}\text{C}$ (1000hrs) / room temp., normal humidity(4 hrs) cycle, measure the properties.	滿足各個特性之規格值 Within standard mentioned in Initial Characteristics.
耐濕性(依據 JIS C0022) Humidity Resistance JIS C0020	放置於 $85^{\circ}\text{C} \pm 2^{\circ}\text{C}$ RH85%之環境中 1000 小時後,取出置於常溫常濕中 4 小時後,檢測直流開始放電電壓,絕緣阻抗,靜電容量及檢查外觀 After $85 \pm 2^{\circ}\text{C}$, 85% RH (1000hrs)/room temp., normal humidity(4hrs)cycle, measure the properties.	滿足各個特性之規格值 Within standard mentioned in Initial Characteristics.
溫度周期(依據 JISC0025) Temperature Cycle Test (JIS C0025)	$-40^{\circ}\text{C} \pm 3^{\circ}\text{C}$ (30 分) \sim (常溫 3 分) $\sim 125^{\circ}\text{C} \pm 2^{\circ}\text{C}$ (30 分)為 1 周期,重複 25 次後,取出置於常溫/常濕中 4 小時後,檢測直流開始放電電壓,絕緣阻抗,靜電容量及檢查外觀 25 times repetition of cycle $-40 \pm 3^{\circ}\text{C}$ (30 Min.),room temp., (4 Min.), $125 \pm 2^{\circ}\text{C}$ (30 Min.),room temp., normal humidity(4hrs).	滿足各個特性之規格值 Within standard mentioned in Initial Characteristics.

十. 突波特性.

Surge Characteristics

試驗項目 Test Item	試驗方法 Test Method	結果 Specification
突波壽命(JSE) Life(JSE)	將(10X700) μsec -1KV 突波,變換極向各 5 次,(100X1000) μsec -1KV 之突波,變換極向各 6 次,每隔 30 秒施加於試料 24 次後,檢測直流開始放電電壓,絕緣阻抗,靜電容量及檢查外觀,(Apply a standard impulse voltage ((10X700) μsec)of 1KV for 5 times with intervals of 30 sec., and then change the polarity of the surge and apply a impulse again. And similarly, apply a impulse voltage((100X1000) μsec) of 1KV. Total apply 24 times. Then measure DC spark-over volatage, IR & Capacitance.)	直流開始放電電壓 JSE Δ $V_s/V_s \leq 30\%$ (DC spark-over volatage JSE: $\Delta V_s/V_s \leq 30\%$)
突波壽命(JSE) Life(JSE)	每間隔 10 秒施加 10KV 之電壓於 1500PF 之電容器通過試料,做 200 次(Apply 10 KV voltage charged in 1500pF condenser and apply the current to the specimen,200 times at 10 seconds of intervals.)	絕緣阻抗:須滿足規定值. 靜電電容:須滿足規定值. 外觀:無影響使用之顯著缺陷 (Insulation Resistance & Capacitance to meet the specified value.Appearance: No cracks or failures.)