

FEATURES

- | Bilateral symmetrical.
- | Less decay at on/off state.
- | High capability to withstand repeated lightning strikes.
- | Low electrode capacitance($\leq 1.0\text{pF}$) and high isolation ($\geq 100\text{M}\Omega$).
- | Working temperature range: $-45^{\circ}\text{C} \sim +125^{\circ}\text{C}$
- | Storing temperature range: $-45^{\circ}\text{C} \sim +125^{\circ}\text{C}$



APPLICATIONS

- | Power Supplies
- | Motor sparks eliminating
- | Relay switching spark absorbing
- | Data line pulse guarding
- | Telephone/Fax/Modem
- | High frequency signal transmitters/receivers
- | Satellite antenna
- | Radio amplifiers
- | Alarm systems
- | Cathode ray tubes in Monitors/ Television Viewing Systems

APPROVALS

RoHS	Compliance with 2011/65/EU
HF	Compliance with IEC61249-2-21:2003

ELECTRICAL CHARACTERISTICS

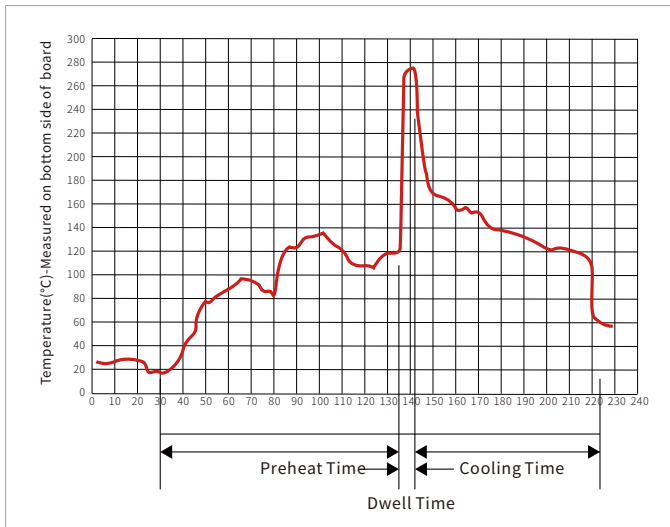
Part Number	DC Spark-Over Voltage $V_s(V)$	Insulation Resistance IR(OHM)/DCV	Electrostatic Capacitance 1KHz-6Vmax C(pF)	Surge Current Capacity 8/20 μ s	Surge Life Test
SSP-141N	140 (98~182)	> 100M/50V	<1.0	1000A	1kHz-10KV ± 100 times 8/20 μ s 100A ± 100 times
SSP-201M	200 (160-240)	>100M/100V	<1.0	1000A	
SSP-301M	300 (240-360)	>100M/100V	<1.0	1000A	
SSP-401M	400 (320-480)	>100M/250V	<1.0	1000A	
SSP-501M	500 (400~600)	>100M/250V	<1.0	1000A	
SSP-601M	600 (480-720)	>100M/250V	<1.0	1000A	
SSP-102M	1000 (800-1200)	>100M/500V	<1.0	1000A	
SSP-122M	1200 (960-1440)	>100M/500V	<1.0	1000A	
SSP-152M	1500 (1200-1800)	>100M/500V	<1.0	1000A	

Color code		1st Band	2nd Band	3rd Band
Black	0	Part No	Manufacture Lot No.1	Manufacture Lot No.2
Brown	1			
Red	2			
Orange	3			
Yellow	4			
Green	5	Green	Yellow	Orange
Blue	6			
Purple	7			
Gray	8			
White	9			

TEST METHODS AND RESULTS

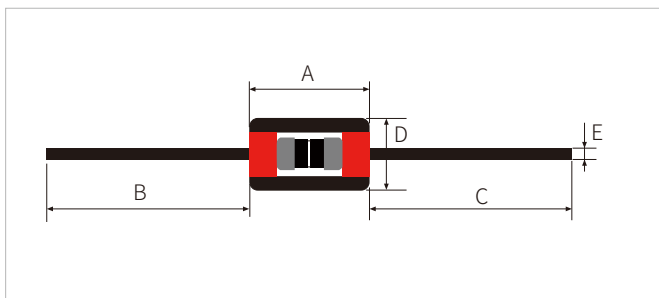
Test Item	Test Method	Specification
DC Spark-Over Voltage $V_s(V)$	Add and measure the DC Voltage gradually Max to get the discharge threshold voltage. The measuring current is 1mA/1 second max.	It depends on each spec.
Insulation Resistance	Measure the insulation resistance of two end of leadwire under the specified DC voltage.	100MΩ min.
Capacitance C(pF)	Measure the Electrostatic Capacitance under the test condition of 1KHz, DC 6V(max)	1pF max.
Cold Resistance JIS C0020	After $-40 \pm 3^\circ\text{C}$ (1000hrs) / room temp., normal humidity(4 hrs) cycle, measure the properties.	Within standard mentioned in Initial Characteristics.
Heat Resistance JIS C0021	After $125 \pm 2^\circ\text{C}$ (1000hrs) / room temp., normal humidity(4 hrs) cycle, measure the properties.	Within standard mentioned in Initial Characteristics.
Humidity Resistance JIS C0020	After $85 \pm 2^\circ\text{C}$, 85% RH (1000hrs)/room temp., normal humidity(4hrs)cycle, measure the properties.	Within standard mentioned in Initial Characteristics.
Temperature Cycle Test (JIS C0025)	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)	Within standard mentioned in Initial Characteristics.
Pull Strength (JIS C0051)	(Apply 2.5 kgs load approximately 30 seconds, then check for pull-out and breaking of the lead wire.)	Within standard mentioned in Initial Characteristics
Flexure Strength (JIS C0051)	Bend the lead wire, with jig which radius is 0.75~0.8mm, at the point of 2mm from the body, under 0.25 kgs load applied at the right angle the direction of the axis and get the bent lead wire back to its original going after the procedure was repeated 2 times	Within standard mentioned in Initial Characteristics
Solderability (JIS C0050, 4.6)	Apply flux and immerse in molten solder, up to the point of 3mm from the body, for 5 sec. ($265^\circ\text{C} \pm 5^\circ\text{C}$). Wash the leadwire and check for soldering adhesion	Lead wire is evenly covered by solder over 90%
Solder Heat (JIS C0051)	Lead wire is dipped up to the point of 2mm from the body, into $265^\circ\text{C} \pm 5^\circ\text{C}$ solder for 10 ± 1 sec. And measure the properties	Within standard mentioned in Initial Characteristics
Life(JSE)	Apply a standard impulse voltage 10X700 μsec of 2KV for 5 times with intervals of 60 sec., and then change the polarity of the surge and apply a impulse again. And similarly, apply a impulse voltage 8 X 20 μsec of 100A. Total apply 200times. Then measure DC spark-over voltage, IR & Capacitance	DC spark-over voltage JSE: $\Delta V_s/V_s \leq 30\%$
Life(JSE)	Apply 10 KV voltage charged in 1500pF condenser and apply the current to the specimen, 200 times at 10 seconds of intervals	VS: $\Delta V_s/V_s \leq 30\%$ IR: 100MΩ min. C: 1 Pf max

WAVE SOLDERING



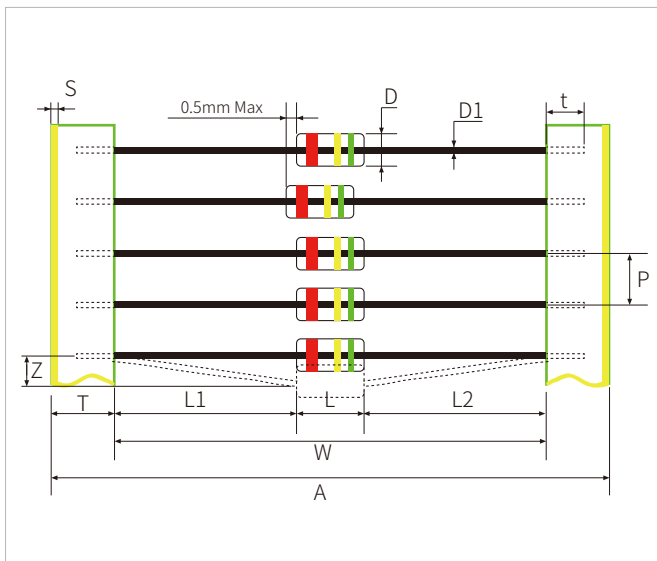
Wave Parameter		Lead-free assembly
Pre Heat	Temperature Min	100°C
	Temperature Max	150°C
	Time(min to max)	60 – 180 secs
Solder pot Temperature		270°C Max
Solder Dwell Time		2-5 seconds

DIMENSIONS



Ref.	Dimensions	
	Millimeters	Inches
A	6.7±1.0	0.264±0.039
B	28±2.0	1.102±0.079
C	28±2.0	1.102±0.079
D	Φ2.6±0.5	Φ0.102±0.020
E	Φ0.50±0.05	Φ0.020±0.002

TAPING AND REEL SPECIFICATIONS



Ref.	Dimensions	
	Millimeters	Inches
A	65.5max	2.579max
W	52+0.5/-0.00	2.047+0.020/0.00
P	5.0±0.5	0.197±0.020
T	6.0±1.0	0.236±0.039
Z	1.2max	0.047max
L1-L2	0.5max	0.020max
S	0.8max	0.031max
t	5.0max	0.197max
L	6.7±1.0	0.234±0.039
D1	Φ0.5±0.05	Φ0.020±0.002
D	Φ2.6±0.30	Φ0.102±0.012

ORDERING INFORMATION

Part Number	Size	QTY/Reel	Description
SSP	Φ2.6*6.7m	2000PCS	Box

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By QR Code

Website



Wechat

To find your local partner within Semiware's global website: www.semiware.com

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