

### **Part Numbering System**

 WPSPG
 20
 HS
 200

 (1)
 (2)
 (3)
 (4)

(1) World Products Spark Gap Protector



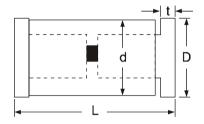
- (2) DC Spark-over Voltage
  Tolerance: (Example: 20=20% tolerance)
- (3) Series Type
  HS= High Current Surface Mount Series
- (4) DC Spark-over Voltage: (Example: 200 = 200V)

#### **FEATURES:**

- 1. RoHS Compliant and Halogen Free
- 2. UL497B File #E135015 (see specific voltage values)
- 3. Fast Responding
- 4. Low Capacitance
- 5. Zero leakage current
- 6. Stable electrical characteristics over time
- 7. Can withstand repeated surges
- 8. Symmetrical



### **DIMENSION**



Item	
L	6.0±0.5
D	3.3±0.5
d	3.1±0.5
t	0.4±0.1

### **ELECTRICAL CHARACTERISTICS**

Part Number	DC Spark-Over Voltage	Minimum Insulation Resistance		Maximu Capacitance (1KHz-6V <sub>MAX</sub> )	Surge current capacity (8/20µs)
	Vs(V)	Test Voltage(V)	IRонм( <b>M</b> Ω)	C(pf)	(A)
*WPSPG-XXHS140	140	50	100	0.8	3000
*WPSPG-XXHS200	200	100	100	0.8	3000
*WPSPG-XXHS300	300	100	100	0.8	3000
*WPSPG-XXHS400	400	250	100	0.8	3000
*WPSPG-XXHS500	500	250	100	0.8	3000
WPSPG-XXHS700	700	500	100	0.8	3000
WPSPG-XXHS1000	1000	500	100	0.8	3000

Note: Vs±XX% (DC Spark-over Voltage Tolerance 30% and 20%),140V device is only available in 30% tolerance.

\*UL 497B recognized (30% tolerance only).

Rev. 1.3 - 080612

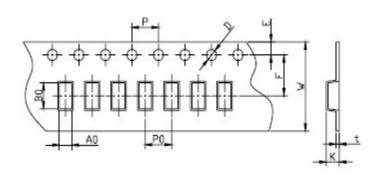


### **TEST METHODS AND RESULTS**

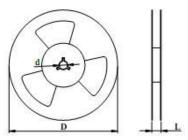
ITEM	TEST METHOD	STANDARD	
	10KV with 1500pf condenser is discharged	Rate-of-change, within $\pm30\%$	
Static Life	through $2K\Omega$ resistor. 200 times at an interval of	insulation resistance & capacitance,	
	10sec.	conformed to rated spec.	
Cold Resistance	Measurement after -40°C/1000 HRS & normal		
Cold Resistance	temperature/2 HRS.		
Heat Decistores	Measurement after 125°C/1000 HRS & normal		
Heat Resistance	temperature/2 HRS.	Features are conformed to rated spec.	
I hamidita Danistanaa	Measurement after humidity 90~95%(45℃)		
Humidity Resistance	/1000 HRS & normal temperature/2 HRS.		
	10 times repetition of cycle -40 °C/30min		
Temperature Cycle	→normal,temp/2 min →125°C/30min,		
	measurement after normal temp/2 HRS.		
	Apply flux and immerse in molten solder	Lead wire is evenly covered by solder.	
Solder Ability	$230\pm5^{\circ}\mathrm{C}$ for 3sec up to the point of 1.5mm		
	From body. Check for solder adhesion.		
	Measurement after lead wire is dipped up to the		
Solder Heat	point of 1.5mm from body into 260±5°C solder	Conformed to rated spec.	
	for 10sec.		
Pull Strength	Apply 0.5kg load for 10sec.		
	Bend lead wire at the point of 2mm from body	Lead shall not pull out or snap.	
Flexural Strength	under 0.25 load and back to its original point.		
	Repeat 1 time.		



### **Taping Specifications**

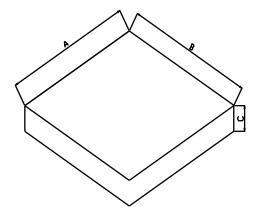


Item	Size (mm)
Р	4.0±0.1
P0	8.0±0.1
W	16.00±0.2
F	7.5±0.05
Е	1.75±0.1
D	Φ1.5±0.1
K	3. 5±0.1
t	0.5Max
A0	$3.5 \pm 0.1$
В0	6.5 ± 0.1



NOTE: 2000 pcs per reel.

Item	Size (mm)
D	330mm
d	13mm
L	20mm



Item	Size (mm)
Α	330
В	330
С	40