

Spark Gap Protectors

Features

- Small Size Design 5* Φ 2.6mm
- Voltage range: 140V-600V
- Current Handling Capability: 0.5KAor 1KA@8/20 μ s
- Low Capacitance and insertion loss
- Fast Response and long service life
- Pb-free (RoHS compliant) package
- Moisture sensitivity level: Level 1



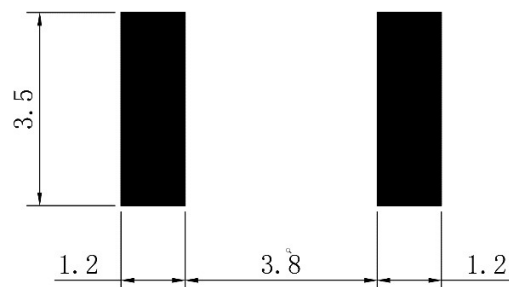
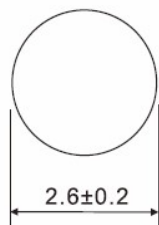
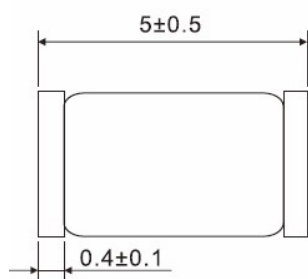
Application

- Communication equipment
- CATV equipment
- Test equipment
- Data lines
- Power supplies
- Telecom SLIC protection
- Broadband equipment
- ADSL equipment, including ADSL2+
- XDSL equipment
- Satellite and CATV equipment
- General telecom equipment

Electrical Characteristics

Catalog Number	DC Spark-Over voltage 100V/S	Impulse Spark-Over voltage 1KV/ μ s	Nom impulse discharge current 8/20 $\pm$ 5T (60S)	Insulation Resistance(DC)	Capacitance 1MHZ<6V
KWGSMD-141	140 $\pm$ 30% V	650V	1.0KA	50V >100M Ω	<1.0pF
KWGSMD-201	200 $\pm$ 30% V	700V	1.0KA	100V >100M Ω	<1.0pF
KWGSMD-301	300 $\pm$ 30% V	900V	1.0KA	100V >100M Ω	<1.0pF
KWGSMD-401	400 $\pm$ 20% V	1000V	1.0KA	100V >100M Ω	<1.0pF
KWGSMD-501	500 $\pm$ 20% V		0.5KA	250V >100M Ω	<1.0pF
KWGSMD-601	600 $\pm$ 20% V		0.5K A	250V >100M Ω	<1.0pF

Package outline Soldering pad (mm)

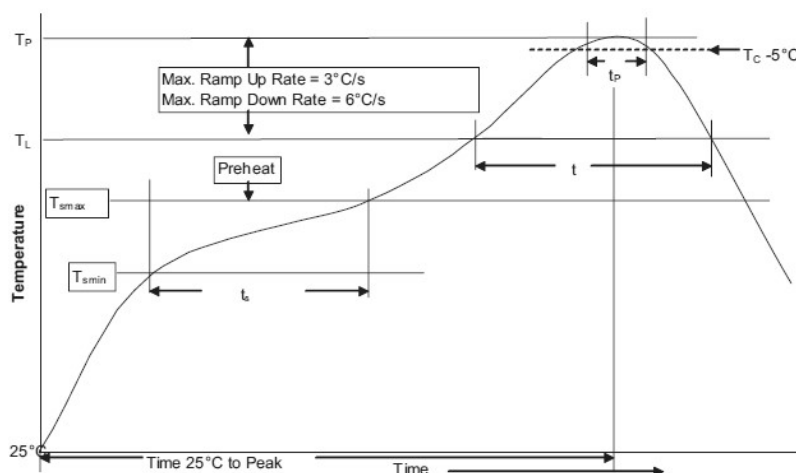


Note: Print solder in thickness of 0.15mm to 0.20mm

Soldering method

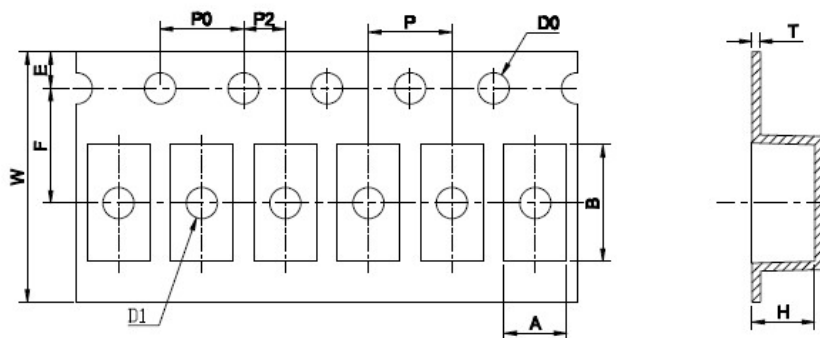
- W Solder reflow
 - Reservoir temperature: 260°C
 - Time in reservoir: 10 seconds maximum
- Manual Soldering (not recommended)
 - Temperature: 260°C
 - Time: 30 seconds maximum

Solder reflow profile



Profile Feature		Lead(Pb) free solder
Preheat and soak	• Temperature min. (T_{smin})	150°C
	• Temperature max. (T_{smax})	200°C
	• Time (T_{smin} to T_{smax}) (t_s)	60 - 120 Seconds
Average ramp up rate T_{smax} to T_p		3°C/ Second Max.
Liquidous temperature (T_L)		217°C
Time at liquidous (t_L)		60 - 150 Seconds
Peak package body temperature (T_p)		260°C
Time (t_p) within 5°C of the specified classification temperature (T_c)		30 Seconds
Average ramp-down rate (T_p to T_{smax})		6°C/ Second Max.
Time (25°C to Peak Temperature)		8 Minutes Max.

Standard Packing



ITEM	Typical
	(mm)
W	12 ± 0.3
A	3.0 ± 0.2
B	5.6 ± 0.2
E	1.75 ± 0.1
F	5.5 ± 0.2
P	4 ± 0.2
P0	4 ± 0.2
P2	2 ± 0.2
D0/D1	1.5 ± 0.1
T	0.4 ± 0.1
H	3.0 ± 0.2

Packaging type	Reel Diameters (mm)	QTY(PCS) Per Reel	QTY(PCS) Per Carton	Carton Size (mm)		
				L	W	H
Taping	178	1500	30000	260	260	310

Note: The relevant parameters of the specification are reference data, please contact the company for details, please provide the latest acknowledgment, the specification is subject to modification without notice.