

Gas Discharge Tube

Features

- Small Size Design $\Phi 6.2 \times 4.0\text{mm}$
- Voltage range: 75V-800V
- Current Handling Capability: 5KA@8/20 μs
- 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

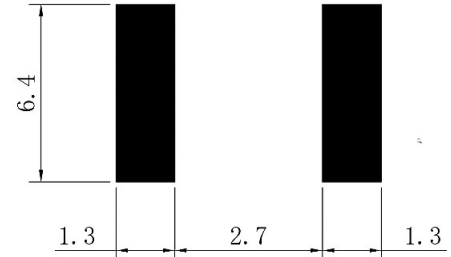
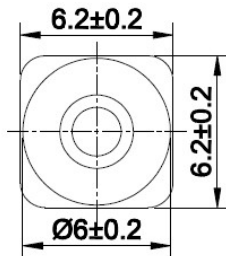
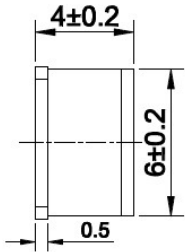
Electrical Characteristics

Catalog Number	DC Spark-Over voltage 100V/S	Impulse Spark-Over voltage 1KV/ μs	Nom impulse discharge current 8/20 $\pm 5\text{T}$ (60S)	Insulation Resistance(DC)	Capacitance 1MHZ<6V
KW6S2R75	75 $\pm 30\%$ V	650V	5.0KA	50V >1.0G Ω	<1.0pF
KW6S2R90	90 $\pm 20\%$ V	600V	5.0KA	100V >1.0G Ω	<1.0pF
KW6S2R150	150 $\pm 20\%$ V	600V	5.0KA	100V >1.0G Ω	<1.0pF
KW6S2R230	230 $\pm 20\%$ V	700V	5.0KA	100V >1.0G Ω	<1.0pF
KW6S2R350	350 $\pm 20\%$ V	1000V	5.0KA	100V >1.0G Ω	<1.0pF
KW6S2R400	400 $\pm 20\%$ V	1100V	5.0KA	100V >1.0G Ω	<1.0pF
KW6S2R420	420 $\pm 20\%$ V	1100V	5.0KA	100V >1.0G Ω	<1.0pF
KW6S2R470	470 $\pm 20\%$ V	1100V	5.0KA	100V >1.0G Ω	<1.0pF
KW6S2R600	600 $\pm 20\%$ V	1200V	5.0KA	250V >1.0G Ω	<1.0pF
KW6S2R800	800 $\pm 20\%$ V	1400V	5.0KA	250V >1.0G Ω	<1.0pF

Agency Approvals

Agency	Agency File Number
	E324754

Product Dimensions(mm)Recommended Soldering Pad(mm)

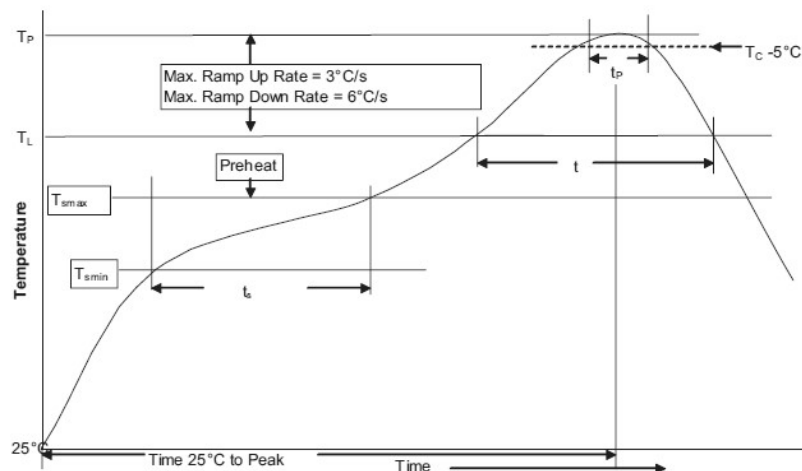


Note: Print solder in thickness of 0.15mm to 0.20mm

Soldering method

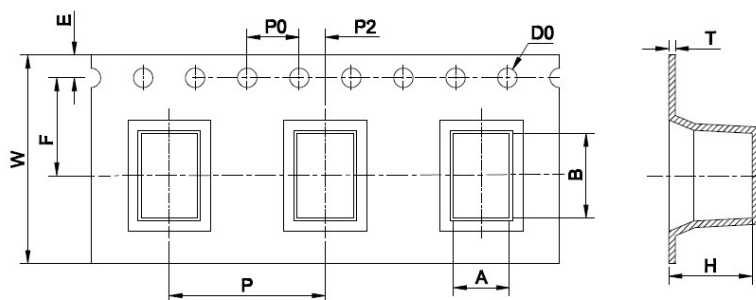
- W Solder reflow
 - Reservoir temperature: 260°C
 - Time in reservoir: 10 seconds maximum
- Manual Soldering (not recommended)
 - Temperature: 260°C
 - Time: 30 seconds maximum

Solder reflow profile



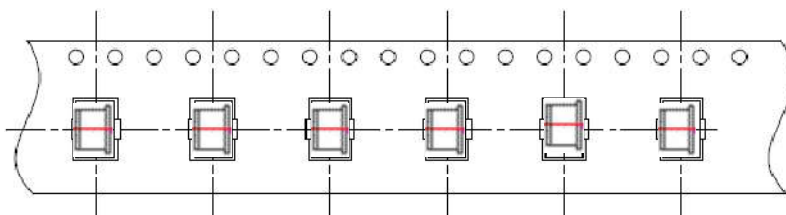
Profile Feature	Lead(Pb) free solder
Preheat and soak	
• Temperature min.(T _{smin})	150°C
• Temperature max. (T _{smax})	200°C
• Time (T _{smin} to T _{smax}) (t _s)	60 - 120 Seconds
Average ramp up rate T _{smax} to T _p	3°C/ Second Max.
Liquidous temperature (T _L)	217°C
Time at liquidous (t _L)	60 - 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)
A	4.3±0.2
B	6.5±0.2
W	16±0.3
F	7.5±0.05
E	1.75±0.1
P	12±0.1
P2	2.0±0.1
P0	4.0±0.1
D0	Φ 1.5±0.1
T	0.5±0.10
H	6.4±0.2

Braid schematic



Packaging type	Reel Diameters (mm)	QTY(PCS) Per Reel	QTY(PCS) Per Carton	Carton Size (mm)		
				L	W	H
Taping	330	800	12800	410	345	350

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.