

Gas Discharge Tube

Features

- Small Size Design 3.5*3.5*4.1mm
- Voltage range: 75V-600V
- Current Handling Capability: 3.0KA@8/20μs
- 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

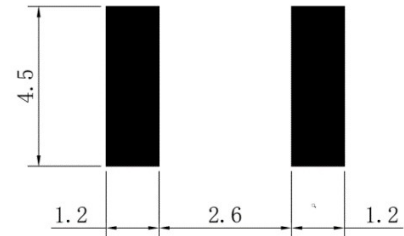
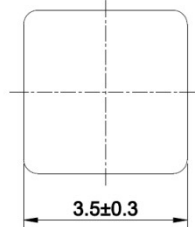
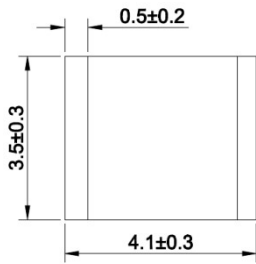
Electrical Characteristics

Catalog Number	DC Spark-Over voltage 100V/S	Impulse Spark-Over voltage 1KV/μs	Nom impulse discharge current 8/20±5T (60S)	Insulation Resistance(DC)	Capacitance 1MHZ<6V
KW4S2R75	75±30% V	650V	3.0KA	50V >100MΩ	<1.0pF
KW4S2R90	90±30% V	600V	3.0KA	50V >100MΩ	<1.0pF
KW4S2R140	140±30% V	600V	3.0KA	50V >100MΩ	<1.0pF
KW4S2R150	150±30% V	600V	3.0KA	50V >100MΩ	<1.0pF
KW4S2R200	200±20% V	700V	3.0KA	100V >100MΩ	<1.0pF
KW4S2R230	230±20% V	700V	3.0KA	100V >100MΩ	<1.0pF
KW4S2R300	300±20% V	900V	3.0KA	100V >100MΩ	<1.0pF
KW4S2R350	350±20% V	1000V	3.0KA	100V >100MΩ	<1.0pF
KW4S2R400	400±20% V	1000V	3.0KA	100V >100MΩ	<1.0pF
KW4S2R420	420±20% V	1200V	3.0KA	100V >100MΩ	<1.0pF
KW4S2R470	470±20% V	1200V	3.0KA	100V >100MΩ	<1.0pF
KW4S2R600	600±20% V	1200V	3.0KA	250V >100MΩ	<1.0pF

Agency Approvals

Agency	Agency File Number
	E324754

Product Dimensions(mm)Recommended Soldering Pad(mm)

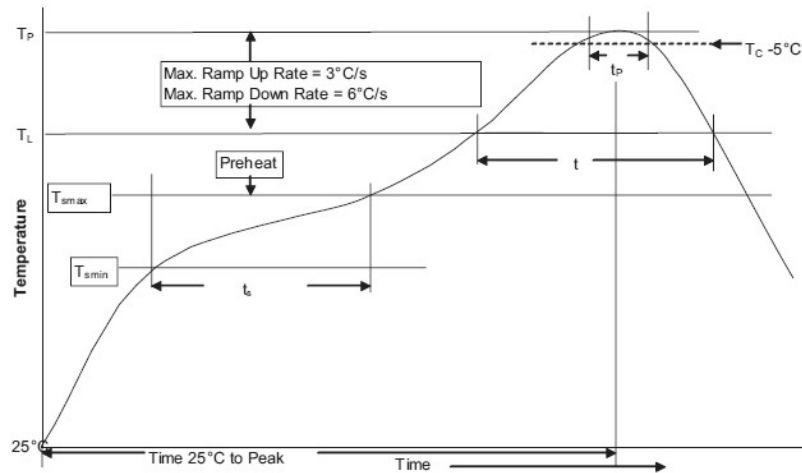


Note: Print solder in thickness of 0.15mm to 0.20mm

Soldering method

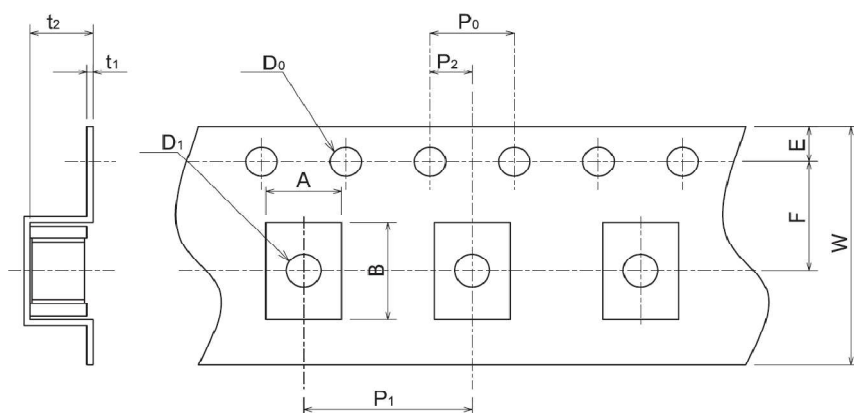
- W solder reflow
 - Reservoir temperature: 260°C
 - Time in reservoir: 10 seconds maximum
- Manual Soldering (not recommended)
 - Temperature: 260°C
 - Time: 30 seconds maximum

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	3.8 ± 0.2
B	4.5 ± 0.2
W	12 ± 0.3
F	5.5 ± 0.05
E	1.75 ± 0.1
P1	8.0 ± 0.1
P2	2.0 ± 0.05
P0	4.0 ± 0.1
D0	$\Phi 1.5 \pm 0.1 / -0$
D1	$\Phi 1.5 \pm 0.15$
t1	0.3 ± 0.1
t2	3.8 ± 0.2

Packaging type	Reel Diameters (mm)	QTY(PCS) Per Reel	QTY(PCS) Per Carton	Carton Size (mm)		
				L	W	H
Taping	330	2000	40000	410	344	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.