

KW6A2R/KW6S2R Series

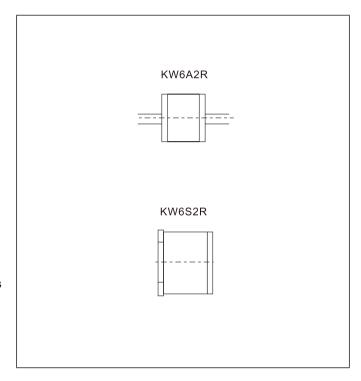
Gas Discharge Tube (GDT)Products



Description

Gas discharge Tubes (GDT) are classical components for protecting the installations of the telecommunications. It is essential that IT and telecommunications systems with their high-grade but sensitive electronic circuits beprotected by arresters. They are thus fitted at the input of the power supply system together with varistors and at the connection points to telecommunication lines. They have become equally indispensable for protecting base stations in mobile telephone systems as well as extensive cable television (CATV) networks with their repeaters and distribution systems.

Thes protective components are also indispensable in other sectors, In AC power transmission systems, they are often used with current limiting varistors, In customer premises equipment such as DSL modems, WLAN routers, TV sets and cable modems In air conditioning equipment, the integral black-box concept offers graduated protection by combining arresters with varistors, PTC, diodes and inductor.



Features

- Non-Radioactive
- ROHS compliant
- Low insertion loss
- Excellent response to fast rising transients
- Ultra low capacitance
- 5KA surge capability tested with 8/20us pulse as defined by IEC 61000-4-5
- Available with thermal failsafe option(add F'suffix to part number)

Applications

Communication equipment CATV equipment

Test equipment

Data lines

Power supplies

Telecom SLIC protection

Broadband equipment

ADSL equipment, including ADSL2+ Satellite and CATV equipment

XDSL equipment

Consumer electronics

Agency Approvals

Agency	Agency File Number
su° u s	E324754

Product Characteristics

	Materials	Nickel-plated with Tinplated wires		
	Glow to Arc Transition Current	~1Amp		
	Glow Voltage	~70 Volts		
	Weight(g)	KW6S2R	0.45	
		KW6A2R	0.85	

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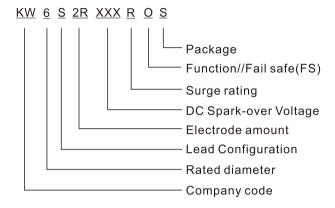
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Gas Discharge Tube (GDT)Products

Part Numbering System

example:



Colour Code

2R 75 15

Electrode amount:2R=2 electrode device

DC Spark-over Voltage:75=75V

Year code:15=2015

Company code: N = King Wahoo

Electrode amount:2R=2 electrode device

DC Spark-over Voltage:75=75V

Electrical Specifications

Catalog Number 料 號	DC Spark-Over Voltage 標稱直流 擊穿電壓 100V/S VS (V)	Impulse Spark Over 衝擊擊穿電壓 1KV/µs Vis(V) Max	Nom Impulse Discharge Current 耐衝擊電流 8/20μs (KA)	Nom Discharge Current(L) 耐工頻電流 IS,50Hz(A)	Resis 絶緣	lation stance 電阻 DC V	Capacitance 電容值 C 1KHZ<6V pF Max	Marking
KW6A2R75	75±30%	700	5	5	1000	50	1.0	® 2R 75
KW6S2R75	75±30%	700	5	5	1000	50	1.0	2R 75 XX
KW6A2R90	90±30%	700	5	5	1000	50	1.0	№ 2R 90
KW6S2R90	90±30%	700	5	5	1000	50	1.0	2R 90 XX
KW6A2R150	150±30%	700	5	5	1000	50	1.0	№ 2R 150
KW6S2R150	150±30%	700	5	5	1000	50	1.0	2R 150 XX
KW6A2R230	230±20%	800	5	5	1000	100	1.0	№ 2R 230
KW6S2R230	230±20%	800	5	5	1000	100	1.0	2R 230 XX
KW6A2R350	350±20%	800	5	5	1000	100	1.0	№ 2R 350
KW6S2R350	350±20%	800	5	5	1000	100	1.0	2R 350 XX
KW6A2R470	470±20%	900	5	5	1000	100	1.0	№ 2R 470
KW6S2R470	470±20%	900	5	5	1000	100	1.0	2R 470 XX
KW6A2R600	600±20%	1200	5	5	1000	250	1.0	№ 2R 600
KW6S2R600	600±20%	1200	5	5	1000	250	1.0	2R 600 XX
KW6A2R1000	1000±20%	1800	5	5	1000	250	1.0	® 2R 1000
KW6S2R1000	1000±20%	1800	5	5	1000	250	1.0	2R 1000 XX



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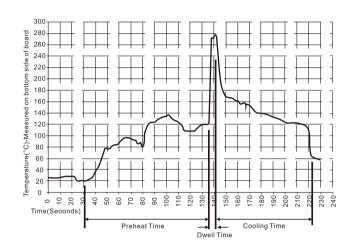


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Soldering Parameters - Wave Soldering (Thru-Hole Devices)

Recommended Process Parameters:

Wave Parameter	Lead-Free Recommendation
Preheat: (Depends on Flux Activation Temperature)	(Typical Industry Recommendation)
Temperature Minimum:	100°C
Temperature Maximum:	150°C
Preheat Time:	60-180 seconds
Solder Pot Temperature:	280°C Maximum
Solder Dwell Time:	2-5 seconds



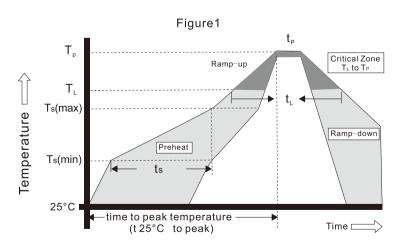
Soldering Parameters - Hand Soldering

Solder Iron Temperature: 350° C +/- 5°C

Heating Time: 5 seconds max.

Soldering Parameters - Reflow Soldering (Surface Mount Devices)

Reflow Condition		Pb – Free assembly	
	Temperature Min	150°C	
Heat Pre	Temperature Max	200°C	
	Time (Min to Max)	60 – 180 secs	
Average ramp up rate (Liquidus) Temp (T _L) to peak		3°C/second max	
Ts(max) to TL - Ramp-up Rate		5°C/second max	
Reflow	- Temperature (T∟) (Liquidus)	217°C	
	- Temperature (t∟)	60 – 150 seconds	
Peak Temperature (T _P)		260+0/-5 °C	
Time within 5°C of actual peak Temperature (t _p)		8 – 20 seconds	
Ramp-down Rate		6°C/second max	
Time 25°C to peak Temperature (TP)		8 minutes Max.	
Do not exceed		260°C	



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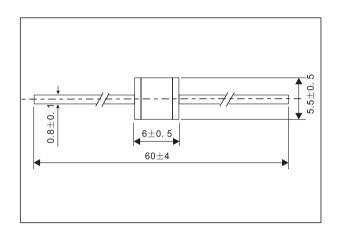
Temperature Range

Operating temp range : -55° C to $+125^{\circ}$ C Storage temp range : -40° C to $+85^{\circ}$ C

Dimensions (Unit:mm)

Without Wire Devices(KW6S2R)

Radial Leaded Devices(KW6A2R)



Packaging

Part Number	Description	Quantity
KW6S2R	1500PCS Per Reel,6000PCS in box,24000PCS outer box	24000
KW6A2R	100PCS PVC,500PCS in box,5000PCS outer box	5000