

DESCRIPTION

The KG5042 series GDT offers high surge ratings in a miniature package. It's designed for surface mounting on PCB with size 5.0x5.0x4.2 mm. Special design features provide high levels of protection against fast rising transients in the 100V/ μ s to 1kV/ μ s range usually caused by lightning disturbances. Low insertion loss is perfectly suited to broadband equipment applications. The capacitance does not vary with voltage, and will not cause operational problems with ADSL2+, where capacitance variation across Tip and Ring is undesirable. For AC Power Cross of long duration, over current protection is recommended.

FEATURES

- > RoHS compliant and Lead-free.
- > High insulation resistance.
- > Low capacitance
- > Max Surge current capacity 5000A 8/20 μ s.
- > Surface Mounted Gas Arrester
- > Size 5.0x5.0x4.2mm

APPLICATIONS

- > Communication equipment.
- > Repeaters, Modems.
- > Telephone Interface, Line cards.
- > Data communication equipment.

PART NUMBER CODE

K G 5042 B 150

DC Breakdown Voltage: 090=90V, 150=150V, 200=200V, Etc.

Polar: B=Bidirectional, U=Unidirectional

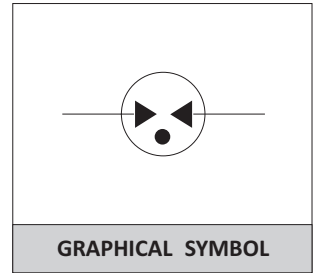
Product Size: 5042=5.0x5.0x4.2mm

Product Line: G=Gas Discharge Tube

Kangtai Brand



5.0x5.0x4.2mm

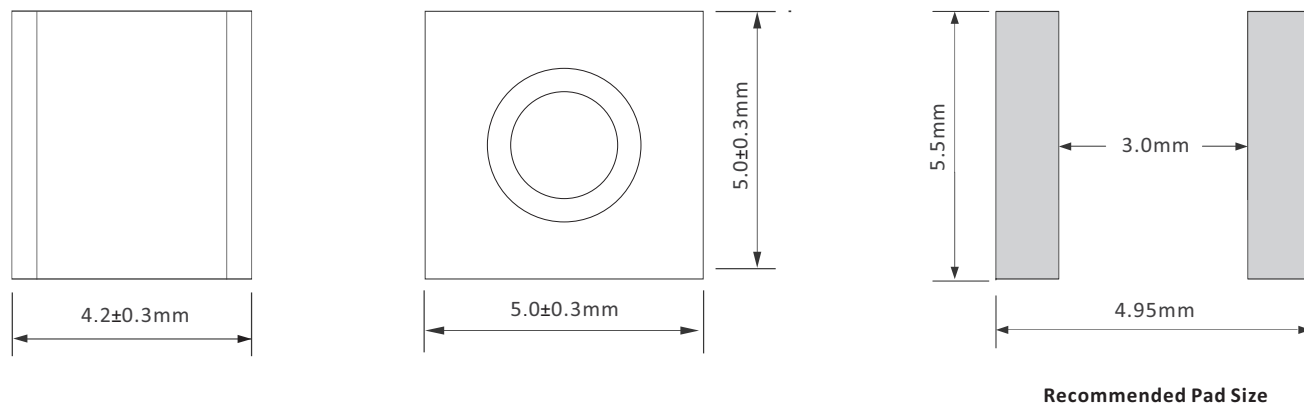


GRAPHICAL SYMBOL

ELECTRICAL CHARACTERISTIC

PART NUMBER	DC BREAKDOWN VOLTAGE	TOLERANCE OF Vs	IMPULSE SPARK-OVER VOLTAGE	IMPULSE DISCHARGE CURRENT	INSULATION RESISTANCE		C@1MHz Max.
	100V/s				Gohm Min.	DC	
KG5042B070	70V	±20%	800V	5000A	1	25V	1.0pF
KG5042B090	90V	±20%	800V	5000A	1	50V	1.0pF
KG5042B150	150V	±20%	800V	5000A	1	100V	1.0pF
KG5042B200	200V	±20%	800V	5000A	1	100V	1.0pF
KG5042B300	300V	±20%	900V	5000A	1	100V	1.0pF
KG5042B350	350V	±20%	900V	5000A	1	100V	1.0pF
KG5042B400	400V	±20%	950V	5000A	1	100V	1.0pF
KG5042B600	600V	±20%	950V	5000A	1	100V	1.0pF
KG5042B800	800V	±20%	1100V	5000A	1	100V	1.0pF

PRODUCT DIMENSIONS



ENVIRONMENTAL RELIABILITY CHARACTERISTICS

Testing Items	Technical Standards
High Temperature Storage Test	Temperature:85°C;Time:2H
Low Temperature Storage Test	Temperature:-40°C;Time:2H
Vibration	Frequency:10-500Hz;Amplitude:0.15mm;Time:45min
Resistance of soldering heat	Temperature:260°C;Time of dip soldering:10s,1time

SOLDERABILITY TEST

Solderability	Solder Pot Temperature:	245±5°C
	Solder Dwell Time:	4~6 seconds

REFLOW PROFILE

