

2-Electrode Gas Discharge Tube (GDT)

QX600-60KA

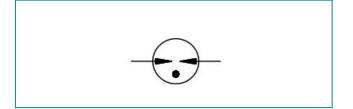
Description

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 - be protected 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.

These 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.



Schematic Symbol



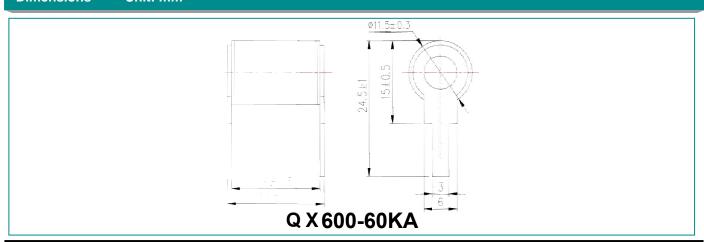
Features

- ◆ Non-Radioactive
- RoHS compliant
- ◆ Low insertion loss
- Excellent response to fast rising transients
- ◆ Ultra low capacitance
- 60KA surge capability tested with 8/20 μ s pulse as defined by IEC 61000-4-5

Applications

- ◆ Communication equipment
- Power supplies
- ◆ Type II (class C)
- ◆ Medical electronics
- Satellite and CATV equipment
- 60KA surge capability tested with 8/20 μ s pulse as defined by IEC 61000-4-5

Dimensions Unit: mm



QIAOXIN Semiconductor Co.,Ltd

www.qiaoxin-semi.com



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Electrical Characteristics

	Maximum Impulse Spark-over Voltage		Minimum Insulation Resistance	Maximum Capacitance	Arc Voltage	Service Life	
Part Number						Nominal Impulse Discharge Current	Max Impulse Discharge Current
	@100V/ µ s	@1KV/μs	resolutios	@1MHz	@1A	@8/20 μ s ±5 times	@8/20 μ s 1 time
QX600-60KA	600	<1400	>1 G Ω (at 100V)	<5pF	~15V	60KA	80KA

Electrical Rating

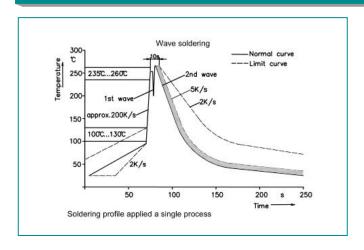
Item	Test Condition / Description	Requirement			
DC Spark-over Voltage Impulse Spark-over Voltage	pulse Spark-over The maximum impulse spark-over voltage is measured with a rise time of				
Insulation Resistance	The resistance of gas tube shall be measured each terminal each other terminal, please see above spec.				
Capacitance	The capacitance of gas tube shall be measured each terminal to each other terminal. Test frequency:1MHz				
Nominal Impulse Discharge Current	The maximum current applying a waveform of 8/20 s that can be applied across the terminals of the gas tube. One hour after the test is completed, re-testing of the DC spark-over voltage does not exceed ±30% of the nominal DC spark-over voltage. Dwell time between pulses is 3 minutes. Crest value 100 90 20 µsec Time Impulse Width	To meet the specified value			
Nominal Alternating Discharge Current	Rated RMS value of AC current at 50Hz, 1 sec. 10 times. Intervals: 3min. The DC spark-over voltage does not exceed $\pm 30\%$ of the nominal DC spark-over voltage. IR $> 10^8$ ohms.				

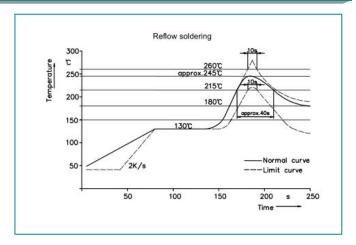


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Recommended soldering profile





Soldering Parameters - Hand Soldering

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

Heating Time: 5 seconds max.

Part Numbering

