

Gas Discharge Tube

Over-Voltage Protection Device

Raychem Circuit Protection Products

PRODUCT: GTCS25-900M-R02

DOCUMENT: SCD 26768

PCN: RF0778

REV LETTER: F

REV DATE: OCTOBER 17, 2008

PAGE NO.: 1 OF 1

Specification Status: Released

Marking:

XX 09 R 02 GN

Week of Manufacture
Per Raychem Circuit Protection
Lot numbering system
Eg. G = First half of 2004; N = week 14

Surge Rating
02: 2.5kA

Product Family

Voltage Designator
09: 90V

Raychem Symbol

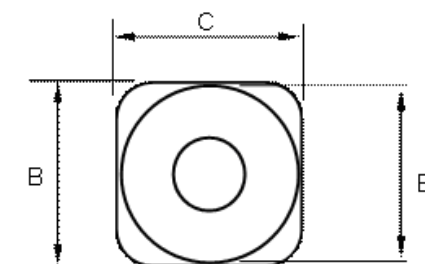
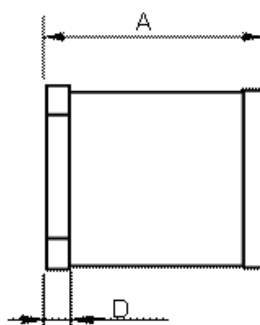


TABLE 1. DIMENSIONS

	A		B		C		D	E	
	Min	Max	Min	Max	Min	Max	Nom	Min	Max
mm	4.8	5.2	5.1	5.5	5.1	5.5	0.5	4.8	5.2
in*	(0.189)	(0.205)	(0.201)	(0.217)	(0.201)	(0.217)	(0.020)	(0.189)	(0.205)

*Rounded off approximation

TABLE 2. RECOMMENDED PAD LAYOUT

	X	Y	Z
	Nom	Nom	Nom
mm	5.0	4.2	1.3
in*	(0.197)	(0.165)	(0.051)

*Rounded off approximation

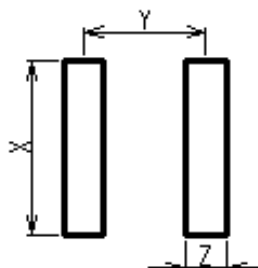


TABLE 3. ELECTRICAL CHARACTERISTICS

DC Spark over Voltage	Impulse Spark over Voltage	Insulation Resistance	Capacitance	Impulse Discharge Current 8/20 μ s	Impulse Discharge Current (8/20 μ s)	AC Discharge Current, 50 Hz
@ 100V/s	@1kV/ μ s	@50 V _{DC}	@ 1MHz	Single Impulse	Repeat 10 times (5 times, each polarity)	Repeat 5 times 1s
90V $\pm$ 20%	600V	$\geq 1,000\text{M}\Omega$	$\leq 1.0\text{pF}$	5kA	2.5kA	2.5A

General Characteristics

No Radioactive Materials

Storage temperature: -40°C ... +85°C

Operating temperature: -40°C ... +85°C

Materials Information

RoHS Compliant

ELV Compliant

Directive 2002/95/EC
Compliant

Directive 2000/53/EC
Compliant

UL:

Precedence:

Effectivity:

CAUTION:

#E179610

This specification takes precedence over documents referenced herein.

Reference documents shall be the issue in effect on the date of invitation for bid.

Operation beyond the rated voltage or current may result in rupture, electrical arcing or flame.