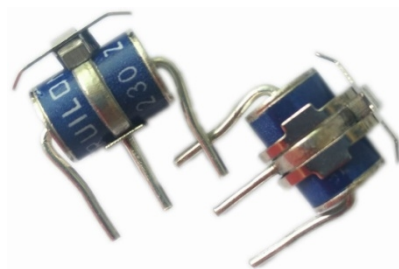


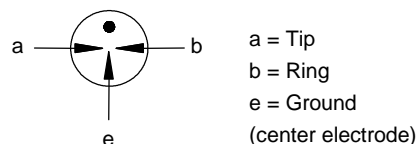
## Description

GDTs are placed in front of, and in parallel with, sensitive telecom equipment such as power lines, communication lines, signal lines and data transmission lines to help protect them from damage caused by transient surge voltages that may result from lightning strikes and equipment switching operations. These devices do not influence the signal in normal operation. However, in the event of an overvoltage surge, such as a lightning strike, the GDT switches to a low impedance state and diverts the energy away from the sensitive equipment.

Our GDTs offer a high level of surge protection, a broad voltage range, low capacitance, and many form factors including new surface mount devices, which makes them suitable for applications such as Main Distribution Frame (MDF) modules, high data-rate telecom applications (e.g. ADSL, VDSL), and surge protection on power lines. Their low capacitance also results in less signal distortion. When used in a coordinated circuit protection solution with PolySwitch devices, they can help equipment manufacturers meet stringent safety regulatory standards.



## Electrical symbol



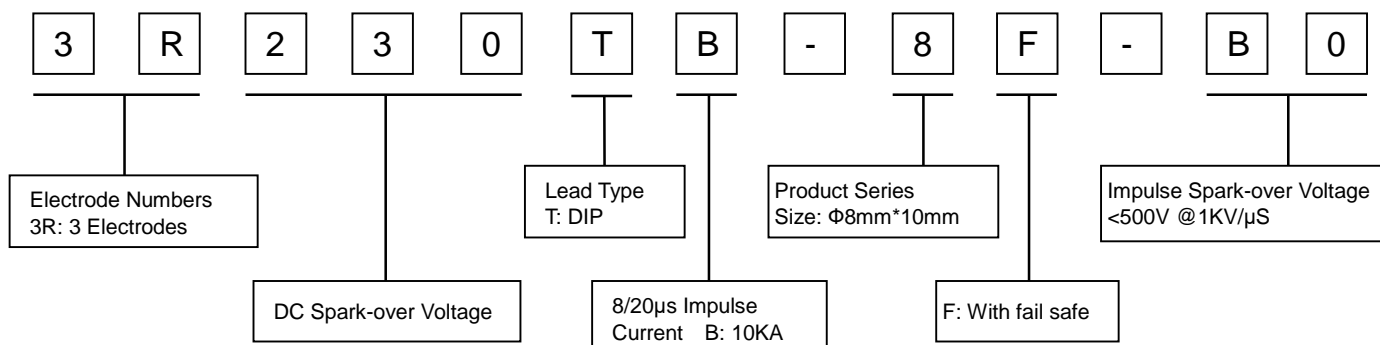
## Features

- I Excellent response to fast rising transients
- I Stable breakdown voltage
- I GHz working frequency
- I 8/20μs Impulse current capability: 10KA
- I Non-Radioactive
- I Ultra Low capacitance (<1.5pF)
- I High insulation resistance
- I Lead-free and RoHS compliant
- I Size: Φ8mm\*10mm
- I Storage and operational temperature: -40~+90°C

## Applications

- I Branch exchange (MDF)
- I Line protection
- I Station protection

## Part Number Code



### Electrical Characteristics

<b>DC Spark-over Voltage</b> <sup>1) 2) 3)</sup>		at 100V/S	230±20%	V
<b>Impulse Spark-over Voltage</b> <sup>3)</sup>		at 100V/μS	<400	V
		at 1KV/μS	<500	V
<b>Service life</b> <sup>4)</sup>				
Impulse Discharge Current	8/20μS	±5 times	10	KA
	8/20μS	1 times	15	KA
AC Discharge Current	50Hz,1S	5 times	10	A
Impulse Life	10/1000μS	±150 times	200	A
<b>Insulation Resistance</b>		at DC 100V	>1	GΩ
<b>Capacitance</b>		at 1MHz	<1.5	pF
<b>Glow Voltage</b>		at 10mA	~120	V
<b>Arc Voltage</b>		at 1A	~15	V
<b>Glow to Arc transition current</b>			~1	A
<b>Weight</b>			~2.30	g
<b>Operation and storage temperature</b>			-40~+90	°C
<b>Climatic category (IEC60068-1)</b>			40/90/21	
<b>Marking, blue negative</b>			<b>RUILON</b> <b>230 Y</b> 230 -Nominal voltage Y -Year of production	
<b>Surface treatment</b>			Nickel Plated	

<sup>1)</sup> At delivery AQL 0.65 level II, DIN ISO 2859

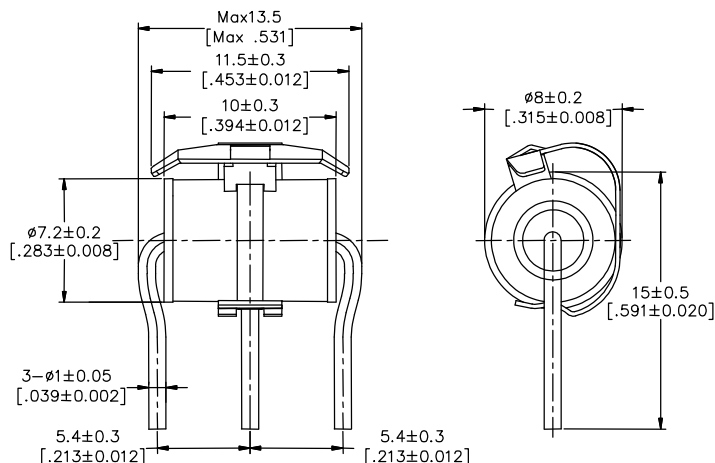
<sup>2)</sup> In ionized mode

<sup>3)</sup> Tip or ring electrode to center electrode

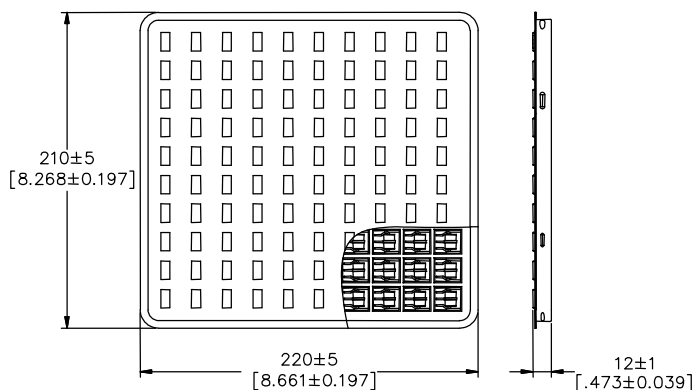
<sup>4)</sup> Total current through center electrode, half value through tip respectively ring electrode.

Terms in accordance with ITU-T Rec. K.12, IEC 61643-311, GB/T 9043.

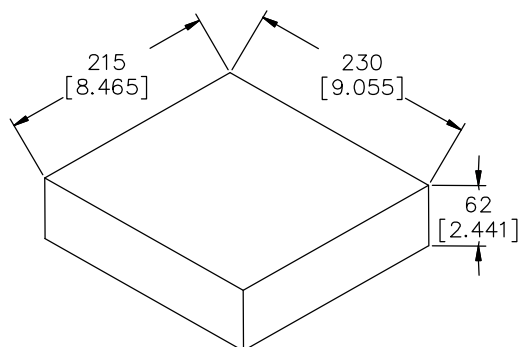
**Dimensions (Unit: mm/inch)**



**Packaging Information (Unit: mm/inch)**

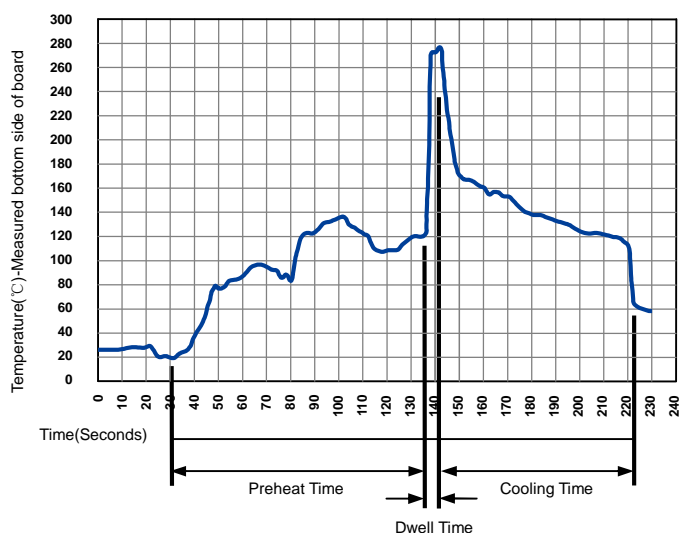


100PCS/ Plastic Tray



500PCS, 5 Plastic Trays / Inner Box

**Soldering Parameters - Wave soldering (Thru-Hole Devices)**



Wave Soldering Condition		Pb-Free assembly
Preheat	Temperature Min	100°C
	Temperature Max	150°C
	Time (Min to Max)	60-180 Seconds
Solder Pot Temperature		280°C Max
Solder Dwell Time		2-5 Seconds