

Features

- Bourns[®] FLAT[®] GDT technology
- Flexible mounting options
- Volume and space-saving design
- Improved impulse performance
- 25 kA 8/20 µs rated
- UL Recognized
- RoHS compliant* and halogen free**

Applications

- Telecom CPE
- Industrial Communications
- Surge Protective Devices
- High density PCB assemblies

2019 Series - Gas Discharge Tube Surge Arrestor with FLAT® Technology

Description

Bourns sets a new industry standard by offering a high current rated 2-electrode GDT in an innovative flat-package design. The Model 2019 Series with FLAT® Technology is an ITU K.12 Class IV GDT device rated at 25 kA maximum on an 8/20 μs waveform, providing a volume and space-saving solution for high density and space-restricted PCB applications. This surface mount device is available in a horizontal mounting configuration.

Additional Information

Click these links for more information:











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PRODUCT TECHNICAL

Characteristics

Test Methods per ITU-T (CCITT) K.12 Class 3 and IEC 61643-311

Characteristic	Model No.		
	2019-09	2019-15	2019-23
DC Sparkover ±20 % @ 100 V/s (1) DC Sparkover End-of-Life Values (2)	90 V	150 V	230 V
Maximum (99 % of values)	<120 V	<195 V	<300 V
Minimum (99 % of values)	>65 V	>110 V	>170 V
Impulse Sparkover Voltage (3) 100 V/µs Typical /			
For 99 % of Values 1 kV/µs Typical /	350 / <450 V	400 / <550 V	450 / <600 V
For 99 % of Values	600 / <800 V	600 / <850 V	700 / <950 V

Arc Voltage	100 V (50 V for Model 2019-09) 10 mA	~70 V ~10 V <4 pF
	20 kA, 8/20 μs	
Operating TemperatureStorage TemperatureClimatic Category (IEC 60068-1) Moisture Sensitivity Level		55 to +85 °C 55 to +105 °C 55/105/21 1

UL Recognized component, UL File E153537

- (1) In ionized mode.
- (2) IR after life >10 8 Ω .
- (3) At delivery AQL 0.65 Level II, DIN ISO 2859.
- (4) DC Sparkover may exceed ±20 % after discharge, but will continue to protect without venting.



WARNING Cancer and Reproductive Harm - www.P65Warnings.ca.gov

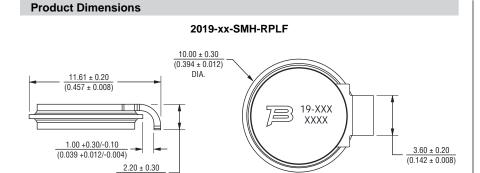
- RoHS Directive 2015/863, Mar 31, 2015 and Annex.
- Bourns considers a product to be "halogen free" if (a) the Bromine (Br) content is 900 ppm or less; (b) the Chlorine (Cl) content is 900 ppm or less; and (c) the total Bromine (Br) and Chlorine (CI) content is 1500 ppm or less.
- "FLAT" is a registered trademark of Bourns, Inc. in the U.S. and other countries.

Specifications are subject to change without notice.

Users should verify actual device performance in their specific applications.

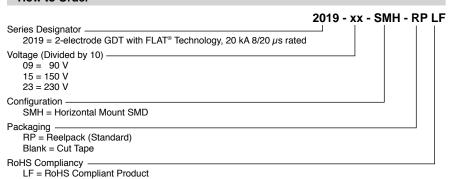
2019 Series - Gas Discharge Tube Surge Arrestor with FLAT® Technology

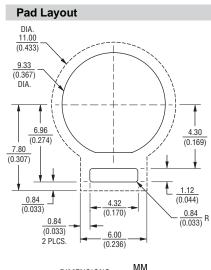
BOURNS



How to Order

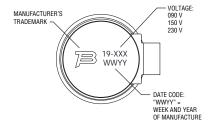
 (0.087 ± 0.012)





DIMENSIONS: $\frac{MM}{(INCHES)}$

Typical Part Marking

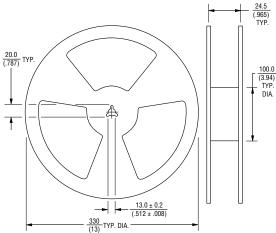


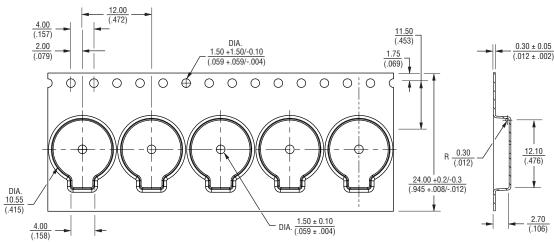
Packaging Specification

TAPE & REEL

The standard tape and reel packaging contains 2,000 pieces per 13-inch reel.

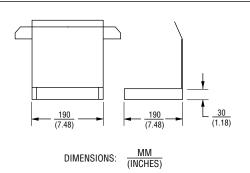
DIMENSIONS: $\frac{MM}{(INCHES)}$





CUT TAPE

Cut tape contains 500 pieces within a carton box.



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