



Features

- Bourns® FLAT® GDT technology
- Flexible mounting options
- Volume- and space-saving design
- Improved impulse performance
- 10 kA 8/20 μ s rated
-  UL Recognized
- RoHS compliant*

Applications

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

2017 Series Gas Discharge Tube Surge Arrestor with FLAT® Technology

Description

Bourns sets a new industry standard by offering this 2-electrode Gas Discharge Tube (GDT) in an innovative flat package design. The Model 2017 Series with FLAT® Technology provides a volume and space-saving solution for high density and space-restricted PCB applications. The series is offered in a leadless version for cartridge or clamp fit applications. Surface mount versions are available in vertical and horizontal mounting configurations.

Characteristics

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

Characteristic	Model No.					
	2017-09	2017-15	2017-23	2017-35	2017-42	2017-50
DC Sparkover $\pm 20\%$ @ 100 V/s ⁽¹⁾	90 V	150 V	230 V	350 V	420 V	500 V
DC Sparkover End-of-Life Values ⁽²⁾						
Maximum (99 % of values)	<120 V	<195 V	<300 V	<455 V	<550 V	<650 V
Minimum (99 % of values)	>65 V	>110 V	>170 V	>260 V	>360 V	>400 V
Impulse Sparkover Voltage ⁽³⁾						
100 V/ μ s Typical / For 99 % of Values	350 / <450 V	400 / <550 V	450 / <600 V	600 / <750 V	700 / <850 V	750 / <950 V
1 kV/ μ s Typical / For 99 % of Values	600 / <800 V	600 / <850 V	700 / <950 V	800 / <1000 V	900 / <1050 V	950 / <1200 V

Insulation Resistance (IR)	100 V (50 V for Model 2017-09)	>1 G Ω
Glow Voltage	10 mA	~70 V
Arc Voltage	>1 A	~10 V
Capacitance	1 MHz	<2.5 pF
Impulse Discharge Current	12000 A, 8/20 μ s	1 operation
	10000 A, 8/20 μ s	>10 operations
	2500 A, 10/350 μ s	1 operation
	100 A, 10/1000 μ s	>300 operations
	10 A, 10/1000 μ s	>1500 operations
Alternating Discharge Current	10 Arms, 1 s	>10 operations
Operating Temperature		-55 to +85 °C
Storage Temperature		-55 to +105 °C
Climatic Category (IEC 60068-1)		40/90/21
Pushover Strength ⁽⁴⁾		5 kg

Notes:

UL Recognized component, UL File E153537

(1) In ionized mode. (3) At delivery AQL 0.65 Level II, DIN ISO 2859.

(2) IR after life >10⁸ Ω . (4) Pushover Strength test performed on a board-mounted Model 2017-xx-SMC (Vertical Mount).

How to Order

Series Designator **2017 - xx - xxx - RP LF**

2017 = 2-electrode GDT with FLAT® Technology, 10 kA 8/20 μ s rated

Voltage (Divided by 10)

09 = 90 V	23 = 230 V	42 = 420 V
15 = 150 V	35 = 350 V	50 = 500 V

Configuration

A = No Leads, (Clamp-Cartridge)

SMH = Horizontal Mount SMD

SMC = Vertical Mount SMD

Packaging

RP = Reelpack (Standard)

RoHS Compliance

LF = RoHS Compliant Product

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*RoHS Directive 2002/95/EC Jan. 27, 2003 including annex and RoHS Recast 2011/65/EU June 8, 2011.

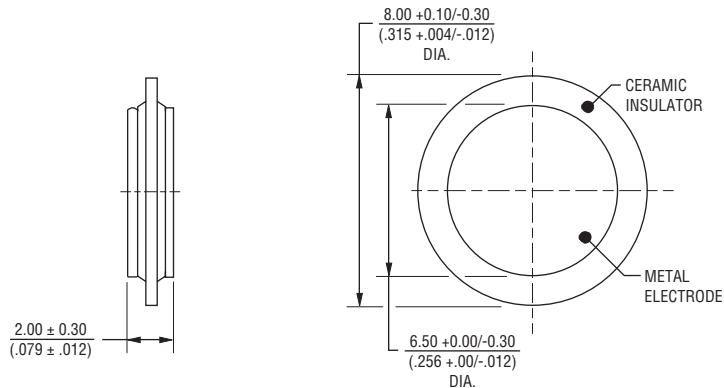
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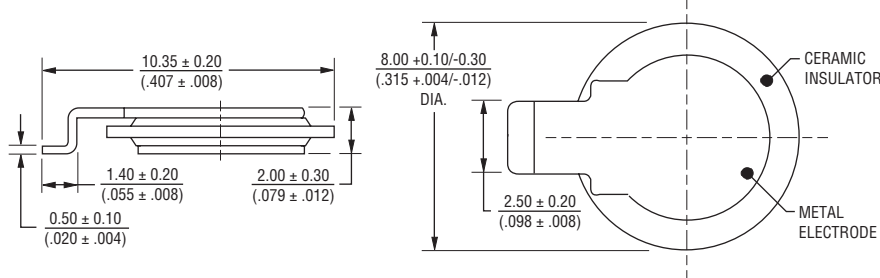
BOURNS®

Product Dimensions

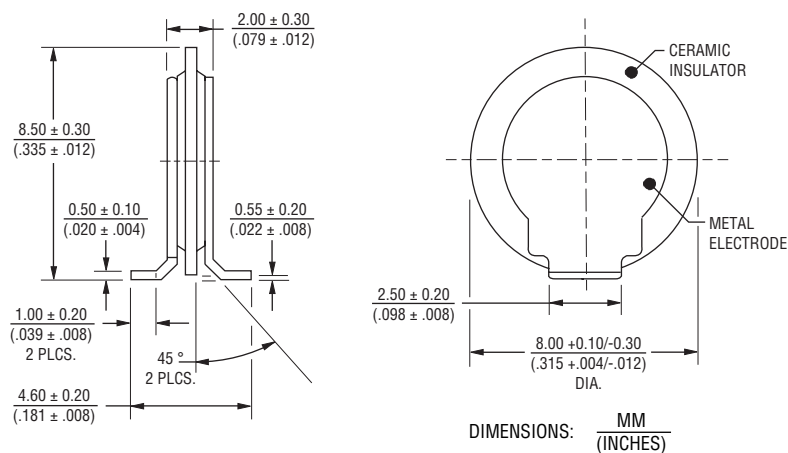
2017-xx-A-RPLF



2017-xx--SMH-RPLF

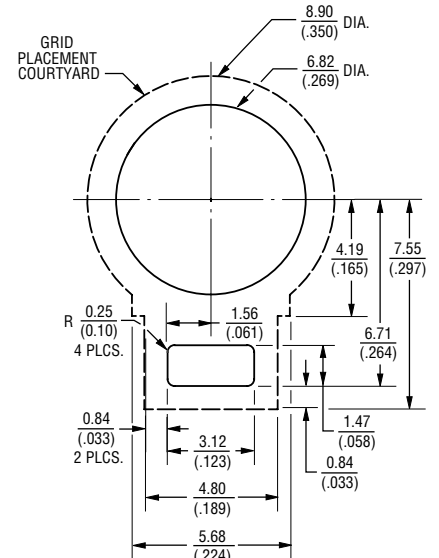


2017-xx-SMC-RPLF

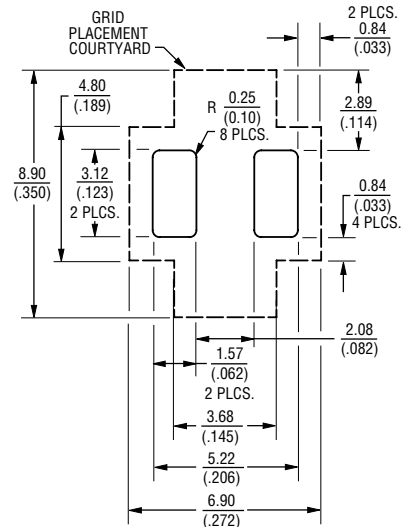


Pad Layouts

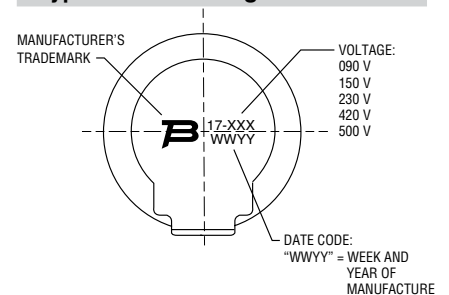
2017-xx--SMH-RPLF



2017-xx-SMC-RPLF



Typical Part Marking



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