



Features

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

Applications

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

2015 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 2015 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 2 and IEC 61643-311

Characteristic	Model No.			
	2015-09	2015-15	2015-23	2015-35
DC Sparkover $\pm 20\%$ @ 100 V/s ⁽¹⁾	90 V	150 V	230 V	350 V
DC Sparkover End-of-Life Values ⁽²⁾				
Maximum (99 % of values)	<120 V	<195 V	<300 V	<455 V
Minimum (99 % of values)	> 65 V	>110 V	>170 V	>260 V
Impulse Sparkover Voltage ⁽³⁾				
100 V/ μ s Typical	400 V	400 V	450 V	600 V
1 kV/ μ s Typical	700 V	650 V	650 V	800 V

Characteristic	Model No.		
	2015-42	2015-50	2015-60
DC Sparkover $\pm 20\%$ @ 100 V/s ⁽¹⁾	420 V	500 V	600 V
DC Sparkover End-of-Life Values ⁽²⁾			
Maximum (99 % of values)	<550 V	<650 V	<780 V
Minimum (99 % of values)	>360 V	>400 V	>450 V
Impulse Sparkover Voltage ⁽³⁾			
100 V/ μ s Typical	650 V	700 V	750 V
1 kV/ μ s Typical	850 V	900 V	950 V

Insulation Resistance (IR)	100 V (50 V for Model 2015-09)	>1 G Ω
Glow Voltage	10 mA	~70 V
Arc Voltage	>1 A	~10 V
Capacitance	1 MHz	<1.9 pF
Impulse Discharge Current	10000 A, 8/20 μ s	1 operation
	5000 A, 8/20 μ s	>10 operations
	1000 A, 10/350 μ s	1 operation
	100 A, 10/1000 μ s	>300 operations
	10 A, 10/1000 μ s	>1500 operations
Glow-Arc Transition Current		< 0.5 A
Alternating Discharge Current	5 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. (2) IR after life >10⁸ Ω . (3) At delivery AQL 0.65 Level II, DIN ISO 2859. (4) Pushover Strength test performed on a board-mounted Model 2015-xx-SMC (Vertical Mount).

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

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Specifications are subject to change without notice.

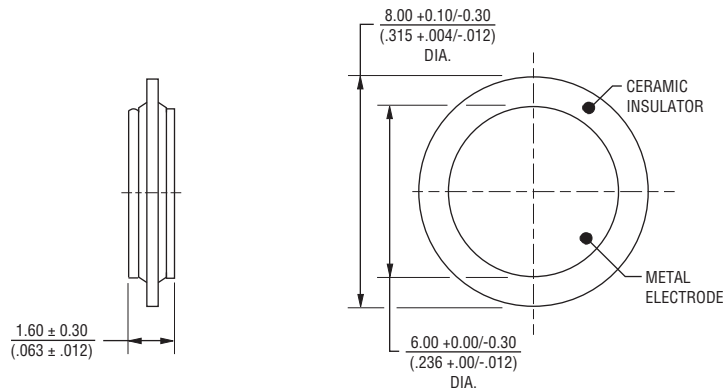
The device characteristics and parameters in this data sheet can and do vary in different applications and actual device performance may vary over time. Users should verify actual device performance in their specific applications.

2015 Series Gas Discharge Tube Surge Arrestor with FLAT® Technology

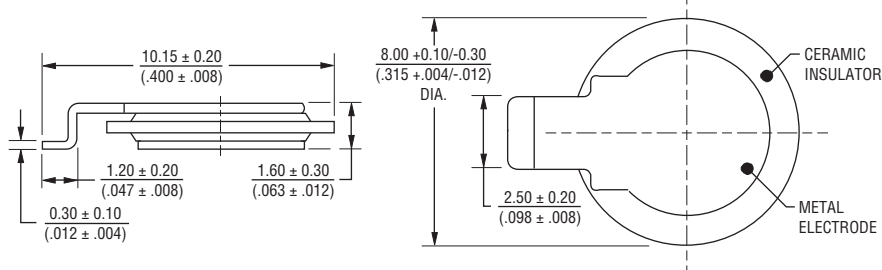
BOURNS®

Product Dimensions

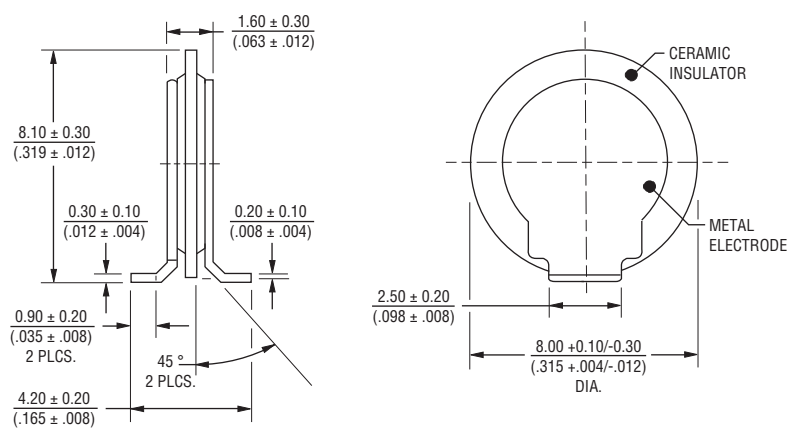
2015-xx-A-RPLF



2015-xx--SMH-RPLF



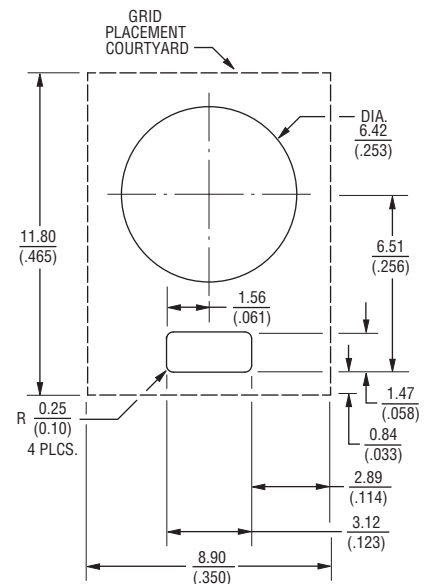
2015-xx-SMC-RPLF



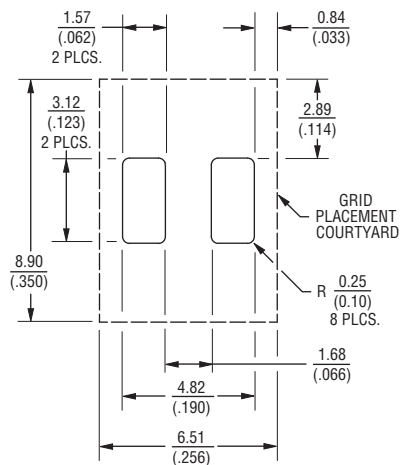
DIMENSIONS: $\frac{\text{MM}}{(\text{INCHES})}$

Pad Layouts

2015-xx--SMH-RPLF



2015-xx-SMC-RPLF



2015 Series Gas Discharge Tube Surge Arrestor with FLAT® Technology

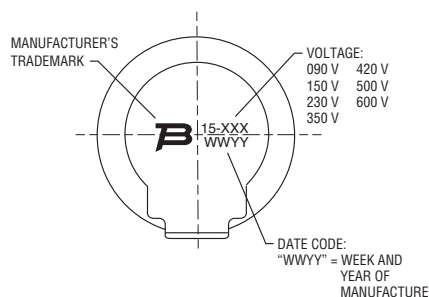
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How to Order

2015 - xx - xxx - RP LF

Series _____
 Designator _____
 2015 = 2-electrode
 GDT with
 FLAT®
 Technology,
 5 kA 8/20 μ s rated
 Voltage (Divided by 10) _____
 09 = 90 V 42 = 420 V
 15 = 150 V 50 = 500 V
 23 = 230 V 60 = 600 V
 35 = 350 V
 Configuration _____
 A = No Leads, (Clamp-Cartridge)
 SMH = Horizontal Mount SMD
 SMC = Vertical Mount SMD
 Packaging _____
 RP = Reelpack (Standard)
 RoHS Compliancy _____
 LF = RoHS Compliant Product

Typical Part Marking



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AMEYA360

Components Supply Platform

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Website :

Welcome to visit www.ameya360.com

Contact Us :

➤ Address :

401 Building No.5, JiuGe Business Center, Lane 2301, Yishan Rd
Minhang District, Shanghai , China

➤ Sales :

Direct +86 (21) 6401-6692

Email amall@ameya360.com

QQ 800077892

Skype ameyasales1 ameyasales2

➤ Customer Service :

Email service@ameya360.com

➤ Partnership :

Tel +86 (21) 64016692-8333

Email mkt@ameya360.com