

Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from, Europe, America and south Asia, supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts, Customers Priority, Honest Operation, and Considerate Service", our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip, ALPS, ROHM, Xilinx, Pulse, ON, Everlight and Freescale. Main products comprise IC, Modules, Potentiometer, IC Socket, Relay, Connector. Our parts cover such applications as commercial, industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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Features

- Size: 8 mm diameter, 10 mm length
- High current rating
- Low capacitance and insertion loss
- Fail-short option available
- RoHS compliant*
- ¶ UL Recognized

Applications

- Telecommunications equipment
- Industrial equipment/electronics
- Consumer electronics

2046 Series Heavy-Duty 3-Electrode Gas Discharge Tube

Characteristics

Test Methods per ITU-T K.12 and IEC 61643-311.

Chavastavistic	Model No.				
Characteristic	2046-09	2046-14	2046-20	2046-23	2046-25
DC Sparkover ±20 % @ 100 V/s	90 V	145 V	200 V	230 V	250 V
Impulse Sparkover ⁽¹⁾ 100 V/µs	< 600 V	< 500 V	< 500 V	< 600 V	< 600 V
1000 V/μs	< 700 V	< 700 V	< 700 V	< 700 V	< 700 V

Chavastavistia	Model No.					
Characteristic	2046-35	2046-40)46-40 2046-42 2046-47	2046-47	2046-60	
DC Sparkover ±20 % @ 100 V/s	350 V	400 V	420 V	470 V	600 V	
Impulse Sparkover (1)						
100 V/μs	< 700 V	< 800 V	< 800 V	< 900 V	< 1000 V	
1000 V/μs	< 800 V	< 900 V	< 900 V	< 1000 V	< 1100 V	

⁽¹⁾ Impulse Sparkover voltage is defined as typical values of distribution.

Insulation Resistance (IR) (2)	50 / 100 / 250 Vdc	> 10 GΩ
	10 mA	
Arc Voltage	1 A	~ 10 V
Glow-Arc Transition Current		< 1 A
Maximum Capacitance	1 MHz	< 2 pF
Maximum Impulse Discharge Current	20,000 A, 8/20 µs	1 operation
	10,000 A, 8/20 μs	10 operations
Nominal Alternating Discharge Current	20 A, 50 Hz, 1 second	1 operation
Impulse Life	200 A 10/1000 µs	130 operations
Operating Temperature		30 to +85 °C
Storage Temperature		40 to +115 °C

Notes:

- UL Recognized component, UL File E153537.
- At delivery AQL 0.65, level II DIN ISO 2859
- Line to Line voltage is approximately 1.8 to 2 times the stated Line to Ground voltage.
- Discharge current rating is total current equally divided between Each Line To Ground (ELTG).

(2) <u>DC Sparkover Voltage</u> <u>IR Measuring Voltage</u>

90 V 50 V 145–400 V 100 V 420–600 V 250 V

(3) Network Applied

DC Sparkover Voltage DC Holdover Voltage

90–145 V 52 V 200–250 V 135 V 350–600 V 150 V

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.

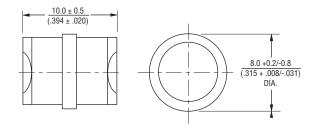
^{*}RoHS Directive 2002/95/EC Jan. 27, 2003 including annex and RoHS Recast 2011/65/EU June 8, 2011.

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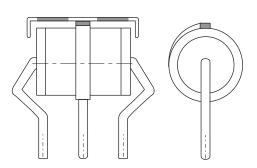
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Product Dimensions

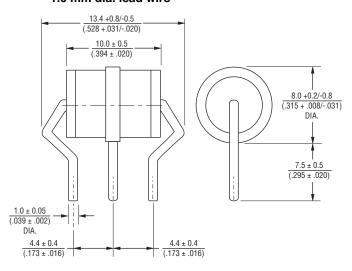
2046-xx-A



2046-xx-C2F FAIL-SHORT CONFIGURATION



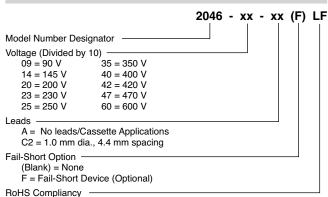
2046-xx-C2 1.0 mm dia. lead wire



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

How to Order

LF = RoHS Compliant Product



Packaging Specifications

Model 2046 ships standard bulk pack, 100 pieces per tray; 5 trays per inner box; 2 inner boxes per outer pack (1K units).

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