



Product Service

# CERTIFICATE

No. B 096048 0004 Rev. 02

**Holder of Certificate:** **BESTBRIGHT ELECTRONICS CO LTD**  
#3 Building, Modern Enterprise  
Accelerator Park  
Song Shan Lake High-tech Industrial Development Zone  
523808 Dongguan City, Guangdong Province  
PEOPLE'S REPUBLIC OF CHINA

**Certification Mark:**



**Product:** **Surge protection equipment  
(Gas discharge tubes)**

The product was tested on a voluntary basis and complies with the essential requirements. The certification mark shown above can be affixed on the product. It is not permitted to alter the certification mark in any way. In addition, the certification holder must not transfer the certificate to third parties. This certificate is valid until the listed date, unless it is cancelled earlier. All applicable requirements of the testing and certification regulations of TÜV SÜD Group have to be complied. For details see: [www.tuvsud.com/ps-cert](http://www.tuvsud.com/ps-cert)

**Test report no.:** 64100170070003

**Valid until:** 2028-08-23

**Date,** 2023-08-24

( Martin Ma )

# CERTIFICATE

No. B 096048 0004 Rev. 02

## Model(s):

2RM1000c-d ee, 2RL1000c-d ee, 2RL1400c-d ee, 2RL1500c-d ee, 2RL1600c-d ee, 2RL2000c-d ee, 2RL2500c-d ee, 2RK1500c-d ee, 2RK2700c-d ee, 2RK3000c-d ee, 2RK3500c-d ee, 2RK3600c-d ee, 2RK4000c-d ee, 2RH1400c-d ee, 2RH1500c-d ee, 2RH1600c-d ee, 2RH2000c-d ee, 2RH2500c-d ee, 2RH2700c-d ee, 2RH3000c-d ee, 2RH3500c-d ee, 2RH3600c-d ee, 2RH4000c-d ee

(c can be L or M, indicates Lead Type,  
L: Lead and M: SMD.

d can be 0 to 9, indicates Electrode shape;  
e can be A to Z or 0 to 9, or blank, indicates  
Packing, Marking or Customer code.)

## Parameters:

Supply type:	a.c. or d.c.
Nominal d.c. sparkover voltage at 100 V/s:	See below table
Impulse sparkover voltage at 1 kV/μs:	See below table
Nominal alternating discharge current:	See below table
Nominal impulse discharge current(8/20 μs):	See below table
Operating and storage range:	-40 °C to +90 °C
Capacitance at 1MHz:	<1.5pf

Type	Nominal d.c. sparkover voltage:	Impulse sparkover voltage	Classes of current-carrying capacity	Nominal alternating discharge current	Life test with impulse currents, waveshape 10/1000	Insulation resistance	
	at 100 V/s	at 1 kV/μs:	8/20 μs (kA)	(A)	Times (100A)	Test voltage (V d.c.)	(GΩ)
2RM1000c-d ee	1000	<1900	10(1 time)	10(1 time)	100	250	>1
2RL1000c-d ee	1000	<1900	5(10 times)	5(10 times)	100	500	>1
2RL1400c-d ee	1400	<2300	5(10 times)	5(10 times)	100	500	>1
2RL1500c-d ee	1500	<2500	5(10 times)	5(10 times)	100	500	>1
2RL1600c-d ee	1600	<2600	5(10 times)	5(10 times)	100	500	>1
2RL2000c-d ee	2000	<3200	5(10 times)	5(10 times)	100	500	>1
2RL2500 c-d ee	2500	<3700	5(10 times)	5(10 times)	100	1000	>1
2RK1500c-d ee	1500	<2500	3(10 times)	3(10 times)	100	500	>1
2RK2700c-d ee	2700	<4200	3(10 times)	3(10 times)	100	1000	>1
2RK3000c-d ee	3000	<4600	3(10 times)	3(10 times)	100	1000	>1
2RK3500c-d ee	3500	<5000	3(10 times)	3(10 times)	100	1000	>1
2RK3600c-d ee	3600	<5000	3(10 times)	3(10 times)	100	1000	>1
2RK4000c-d ee	4000	<5500	3(10 times)	3(10 times)	100	1000	>1
2RH1400c-d ee	1400	<2300	3(10 times)	3(10 times)	100	500	>1
2RH1500c-d ee	1500	<2500	2.5 (10 times)	2.5 (10 times)	100	500	>1



Product Service

# CERTIFICATE

No. B 096048 0004 Rev. 02

2RH1600c-d ee	1600	<2600	3(10 times)	3(10 times)	100	500	>1
2RH2000c-d ee	2000	<3200	3(10 times)	3(10 times)	100	500	>1
2RH2500c-d ee	2500	<3700	3(10 times)	3(10 times)	100	500	>1
2RH2700c-d ee	2700	<4200	3(10 times)	3(10 times)	100	1000	>1
2RH3000c-d ee	3000	<4600	3(10 times)	3(10 times)	100	1000	>1
2RH3500c-d ee	3500	<5000	3(10 times)	3(10 times)	100	1000	>1
2RH3600c-d ee	3600	<5000	2.5 (10 times)	2.5 (10 times)	100	1000	>1
2RH4000c-d ee	4000	<5500	2.5 (10 times)	2.5 (10 times)	100	1000	>1

Tested according to: EN 61643-311:2013

ZERTIFIKAT ◆ CERTIFICATE ◆ 認證證書 ◆ CERTIFICADO ◆ CERTIFICAT