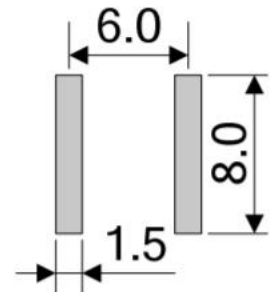
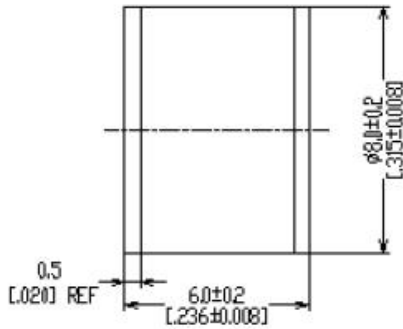


## 2-Electrode Gas Discharge Tubes

5KA



### 1: Dimension(mm)



Recommended Pad Size

### 2: Main Applications

- PCI Cards protection
- Telephone/Fax/Modem protection
- single line protection
- ADSL/XDSL Splitter, Power Supply
- Surge Protection Device/Surge Protector

### 3: Features

- 100% Lead-Free (RoHS Compliant)
- Non-Radioactive
- Low capacitance ( $\leq 1\text{pF}$ )
- Small size : Ø8x6(mm)
- Safety certification: File number: E505240

### Electrical Characteristics

Part Number	DC Spark-over Voltage@ 100V/S	Impulse Spark-over Voltage @100V/ $\mu\text{s}$	Impulse Spark-over Voltage @1KV/ $\mu\text{s}$	Insulation Resistance	Impulse discharge current(8/20 $\mu\text{s}$ ) 10 Times	AC discharge current (50Hz, 1s, 10times)	Capacitance (1MHz)	UL Certificate
	V	V	V	G $\Omega$		A	PF	UL File number
<a href="#">HA2R8-75E</a>	75 $\pm 20\%$	<450	<550	>1	5KA	5	$\leq 1$	<a href="#">E505240</a>
<a href="#">HA2R8-90E</a>	90 $\pm 20\%$	<450	<550	>1	5KA	5	$\leq 1$	<a href="#">E505240</a>
<a href="#">HA2R8-150E</a>	150 $\pm 20\%$	<500	<600	>1	5KA	5	$\leq 1$	<a href="#">E505240</a>
<a href="#">HA2R8-200E</a>	200 $\pm 20\%$	<500	<600	>1	5KA	5	$\leq 1$	<a href="#">E505240</a>
<a href="#">HA2R8-230E</a>	230 $\pm 20\%$	<600	<700	>1	5KA	5	$\leq 1$	<a href="#">E505240</a>
<a href="#">HA2R8-250E</a>	250 $\pm 20\%$	<600	<700	>1	5KA	5	$\leq 1$	<a href="#">E505240</a>
<a href="#">HA2R8-300E</a>	300 $\pm 20\%$	<600	<700	>1	5KA	5	$\leq 1$	<a href="#">E505240</a>
<a href="#">HA2R8-350E</a>	350 $\pm 20\%$	<900	$\leq 1000$	>1	5KA	5	$\leq 1$	<a href="#">E505240</a>
<a href="#">HA2R8-400E</a>	400 $\pm 20\%$	<900	$\leq 1000$	>1	5KA	5	$\leq 1$	<a href="#">E505240</a>
<a href="#">HA2R8-420E</a>	420 $\pm 20\%$	<900	$\leq 1000$	>1	5KA	5	$\leq 1$	<a href="#">E505240</a>
<a href="#">HA2R8-470E</a>	470 $\pm 20\%$	<1050	$\leq 1150$	>1	5KA	5	$\leq 1$	<a href="#">E505240</a>
<a href="#">HA2R8-600E</a>	600 $\pm 20\%$	<1200	$\leq 1300$	>1	5KA	5	$\leq 1$	<a href="#">E505240</a>

Specifications are subject to change without notice

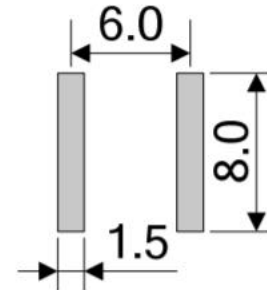
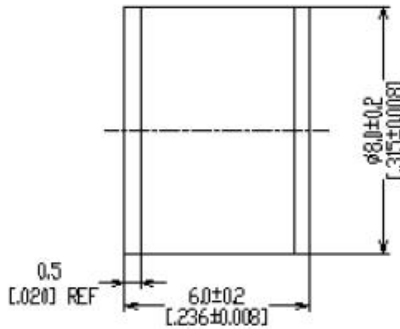
[sales@huaandz.com](mailto:sales@huaandz.com)

## 2-Electrode Gas Discharge Tubes

10KA



### 1: Dimension(mm)



Recommended Pad Size

### 2: Main Applications

- PCI Cards protection
- Telephone/Fax/Modem protection
- single line protection
- ADSL/XDSL Splitter, Power Supply
- Surge Protection Device/Surge Protector

### 3: Features

- 100% Lead-Free (RoHS Compliant)
- Non-Radioactive
- Low capacitance ( $\leq 1\text{pF}$ )
- Small size : Ø8x6(mm)
- Safety certification: File number: E505240

### Electrical Characteristics

Part Number	DC Spark-over Voltage@ 100V/S	Impulse Spark-over Voltage @100V/ $\mu\text{s}$	Impulse Spark-over Voltage @1KV/ $\mu\text{s}$	Insulation Resistance	Impulse discharge current(8/20 $\mu\text{s}$ )	AC discharge current (50Hz, 1s, 10times)	Capacitance (1MHz)	UL Certificate
	V	V	V	G $\Omega$	10 Times	A	PF	UL File number
<a href="#">HA2R8-75M</a>	75 $\pm 20\%$	<450	<550	>1	10KA	10	$\leq 1$	<a href="#">E505240</a>
<a href="#">HA2R8-90M</a>	90 $\pm 20\%$	<450	<550	>1	10KA	10	$\leq 1$	<a href="#">E505240</a>
<a href="#">HA2R8-150M</a>	150 $\pm 20\%$	<500	<600	>1	10KA	10	$\leq 1$	<a href="#">E505240</a>
<a href="#">HA2R8-200M</a>	200 $\pm 20\%$	<500	<600	>1	10KA	10	$\leq 1$	<a href="#">E505240</a>
<a href="#">HA2R8-230M</a>	230 $\pm 20\%$	<600	<700	>1	10KA	10	$\leq 1$	<a href="#">E505240</a>
<a href="#">HA2R8-250M</a>	250 $\pm 20\%$	<600	<700	>1	10KA	10	$\leq 1$	<a href="#">E505240</a>
<a href="#">HA2R8-300M</a>	300 $\pm 20\%$	<600	<700	>1	10KA	10	$\leq 1$	<a href="#">E505240</a>
<a href="#">HA2R8-350M</a>	350 $\pm 20\%$	<900	$\leq 1000$	>1	10KA	10	$\leq 1$	<a href="#">E505240</a>
<a href="#">HA2R8-400M</a>	400 $\pm 20\%$	<900	$\leq 1000$	>1	10KA	10	$\leq 1$	<a href="#">E505240</a>
<a href="#">HA2R8-420M</a>	420 $\pm 20\%$	<900	$\leq 1000$	>1	10KA	10	$\leq 1$	<a href="#">E505240</a>
<a href="#">HA2R8-470M</a>	470 $\pm 20\%$	<1050	$\leq 1150$	>1	10KA	10	$\leq 1$	<a href="#">E505240</a>
<a href="#">HA2R8-600M</a>	600 $\pm 20\%$	<1200	$\leq 1300$	>1	10KA	10	$\leq 1$	<a href="#">E505240</a>

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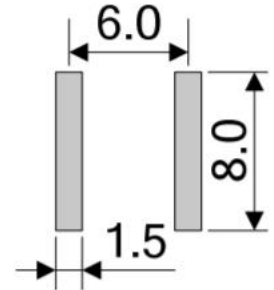
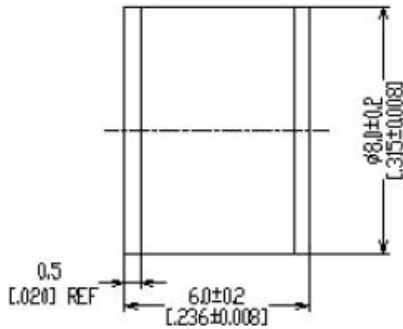
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## 2-Electrode Gas Discharge Tubes

20KA



### 1: Dimension(mm)



Recommended Pad Size

### 2: Main Applications

- PCI Cards protection
- Telephone/Fax/Modem protection
- single line protection
- ADSL/XDSL Splitter, Power Supply
- Surge Protection Device/Surge Protector

### 3: Features

- 100% Lead-Free (RoHS Compliant)
- Non-Radioactive
- Low capacitance ( $\leq 1\text{pF}$ )
- Small size : Ø8x6(mm)
- **Safety certification:** **File number: E505240**

### Electrical Characteristics

Part Number	DC Spark-over Voltage@ 100V/S	Impulse Spark-over Voltage @100V/ $\mu\text{s}$	Impulse Spark-over Voltage @1KV/ $\mu\text{s}$	Insulation Resistance	Impulse discharge current(8/20 $\mu\text{s}$ )	AC discharge current (50Hz, 1s, 10times)	Capacitance (1MHz)	UL Certificate
	V	V	V	G $\Omega$	10 Times	A	PF	UL File number
<a href="#">HA2R8-75H</a>	75 $\pm 20\%$	<450	<550	>1	20KA	20	$\leq 1$	<a href="#">E505240</a>
<a href="#">HA2R8-90H</a>	90 $\pm 20\%$	<450	<550	>1	20KA	20	$\leq 1$	<a href="#">E505240</a>
<a href="#">HA2R8-150H</a>	150 $\pm 20\%$	<500	<600	>1	20KA	20	$\leq 1$	<a href="#">E505240</a>
<a href="#">HA2R8-200H</a>	200 $\pm 20\%$	<500	<600	>1	20KA	20	$\leq 1$	<a href="#">E505240</a>
<a href="#">HA2R8-230H</a>	230 $\pm 20\%$	<600	<700	>1	20KA	20	$\leq 1$	<a href="#">E505240</a>
<a href="#">HA2R8-250H</a>	250 $\pm 20\%$	<600	<700	>1	20KA	20	$\leq 1$	<a href="#">E505240</a>
<a href="#">HA2R8-300H</a>	300 $\pm 20\%$	<600	<700	>1	20KA	20	$\leq 1$	<a href="#">E505240</a>
<a href="#">HA2R8-350H</a>	350 $\pm 20\%$	<900	$\leq 1000$	>1	20KA	20	$\leq 1$	<a href="#">E505240</a>
<a href="#">HA2R8-400H</a>	400 $\pm 20\%$	<900	$\leq 1000$	>1	20KA	20	$\leq 1$	<a href="#">E505240</a>
<a href="#">HA2R8-420H</a>	420 $\pm 20\%$	<900	$\leq 1000$	>1	20KA	20	$\leq 1$	<a href="#">E505240</a>
<a href="#">HA2R8-470H</a>	470 $\pm 20\%$	<1050	$\leq 1150$	>1	20KA	20	$\leq 1$	<a href="#">E505240</a>
<a href="#">HA2R8-600H</a>	600 $\pm 20\%$	<1200	$\leq 1300$	>1	20KA	20	$\leq 1$	<a href="#">E505240</a>

Packing Quantity : 100PCS

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