

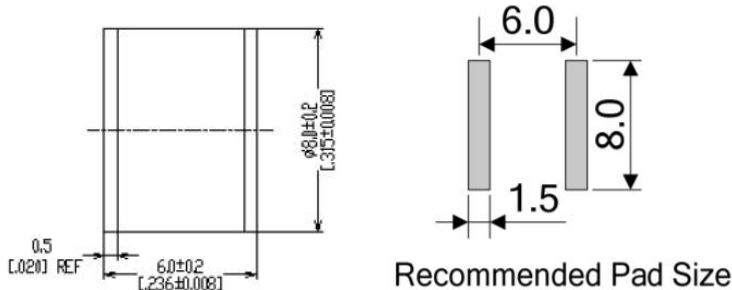
## 2-Electrode Gas Discharge Tubes

20KA

No Lead Wire



1: Dimension(mm)



### 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: ≤1pF
- Small size : Φ8x6mm
- Safety certification: File number: E505240

Part Number	DC Spark-over Voltage	Impulse Spark-over Voltage	Impulse Spark-over Voltage	Insulation Resistance	Impulse discharge current	Impulse Life	AC discharge current	Delivery time	UL Certificate
	@100V/S	@100V/μs	@1KV/μs	GΩ	10 Times	10x1000μs	10times	days	UL497B
HA2R8-75H	75V ±20%	≤500V	≤ 600V	>1GΩ	20KA	100A	20A	12days	E505240
HA2R8-90H	90V ±20%	≤500V	≤ 600V	>1GΩ	20KA	100A	20A	12days	E505240
HA2R8-140H	140V±20%	≤500V	≤ 600V	>1GΩ	20KA	100A	20A	12days	E505240
HA2R8-150H	150V±20%	≤500V	≤ 600V	>1GΩ	20KA	100A	20A	12days	E505240
HA2R8-200H	200V±20%	≤600V	≤ 700V	>1GΩ	20KA	100A	20A	12days	E505240
HA2R8-230H	230V±20%	≤600V	≤ 700V	>1GΩ	20KA	100A	20A	12days	E505240
HA2R8-250H	250V±20%	≤600V	≤ 700V	>1GΩ	20KA	100A	20A	12days	E505240
HA2R8-260H	260V±20%	≤700V	≤ 800V	>1GΩ	20KA	100A	20A	12days	E505240
HA2R8-300H	300V±20%	≤800V	≤ 900V	>1GΩ	20KA	100A	20A	12days	E505240
HA2R8-350H	350V±20%	≤900V	≤ 1000V	>1GΩ	20KA	100A	20A	12days	E505240
HA2R8-400H	400V±20%	≤900V	≤ 1000V	>1GΩ	20KA	100A	20A	12days	E505240
HA2R8-420H	420V±20%	≤900V	≤ 1000V	>1GΩ	20KA	100A	20A	12days	E505240
HA2R8-470H	470V±20%	≤1100V	≤ 1200V	>1GΩ	20KA	100A	20A	12days	E505240
HA2R8-500H	500V±20%	≤1100V	≤ 1200V	>1GΩ	20KA	100A	20A	12days	E505240
HA2R8-550H	550V±20%	≤1300V	≤ 1400V	>1GΩ	20KA	100A	20A	12days	E505240
HA2R8-600H	600V±20%	≤1300V	≤1400V	>1GΩ	20KA	100A	20A	12days	E505240
HA2R8-800H	800V±20%	≤1400V	≤1500V	>1GΩ	20KA	100A	20A	12days	E505240

Specifications are subject to change without notice

Tel: +86-755-27465585

**4 Electrical Characteristics**

**Continue**

Part Number	DC Holdover Voltage	On-State Voltage	Impulse discharge current 8/20μs	Peak Current @10/350μs	Weight
	Per ITU K.12 (<150ms)	Nominal @ 1A	1time	1time	g
HA2R8-75H	<52V	20V	25KA	2.5KA	~1.5g
HA2R8-90H	<52V	20V	25KA	2.5KA	~1.5g
HA2R8-140H	<80V	20V	25KA	2.5KA	~1.5g
HA2R8-150H	<80V	20V	25KA	2.5KA	~1.5g
HA2R8-200H	<135V	20V	25KA	2.5KA	~1.5g
HA2R8-230H	<135V	20V	25KA	2.5KA	~1.5g
HA2R8-250H	<135V	20V	25KA	2.5KA	~1.5g
HA2R8-260H	<135V	20V	25KA	2.5KA	~1.5g
HA2R8-300H	<150V	20V	25KA	2.5KA	~1.5g
HA2R8-350H	<150V	20V	25KA	2.5KA	~1.5g
HA2R8-400H	<150V	20V	25KA	2.5KA	~1.5g
HA2R8-420H	<150V	20V	25KA	2.5KA	~1.5g
HA2R8-470H	<150V	20V	25KA	2.5KA	~1.5g
HA2R8-500H	<150V	20V	25KA	2.5KA	~1.5g
HA2R8-550H	<150V	20V	25KA	2.5KA	~1.5g
HA2R8-600H	<150V	20V	25KA	2.5KA	~1.5g
HA2R8-800H	<150V	20V	25KA	2.5KA	~1.5g

- 1:At delivery AQL 0.65 leave II Military Standard 105 E
- 2:In ionized mode
- 3:Test according to ITU-T Rec.k.12

**Environmental resistance**

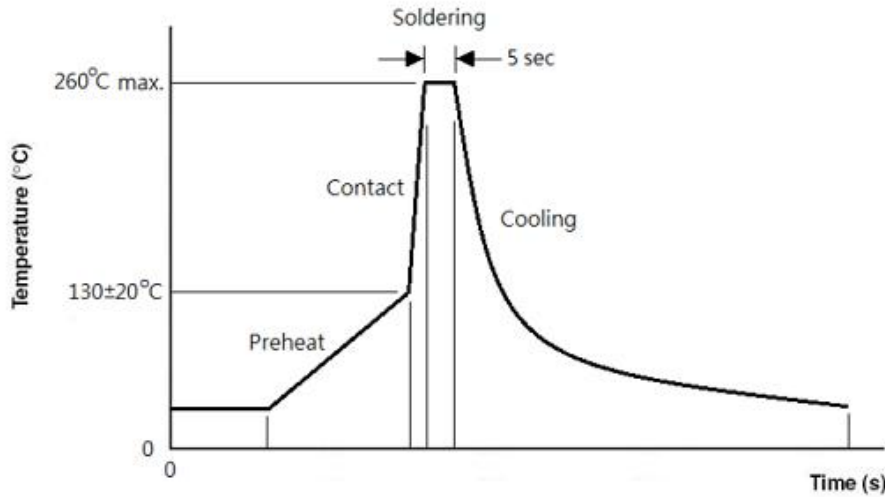
Storage temperature:	-40°C---+90°C
Operating temperature:	-40°C---+90°C
Electrode:	Tin Plated

**Example Part Number: HA2R8-90H**

HA	=	HUAAN
2	=	2 Electrode device
R	=	Gas Discharge Tube
8	=	8mm Diameter
90	=	90V
H	=	High Surge 20KA

2-Electrode Gas Discharge Tubes  
Reflow Soldering Curve

20KA



Tape Specification and Reel Dimensions

Symbol	Dimensions(mm)
W	16.0mm ±0.3
E	1.75mm ±0.1
F	7.5mm ±0.1
T	0.50mm ±0.05
P	12.0mm ±0.1
P0	4.0mm ±0.1
P2	2.0mm ±0.1
D0	Φ1.5mm ±0.1
A0	8.60mm ±0.1
K0	8.50mm ±0.1
B0	6.4mm ±0.1

Packaging Quantity

Part Number	Quantity	
	Per Tray	Per Carton
HA2R8-xxxH Series	500PCS	4000PCS