

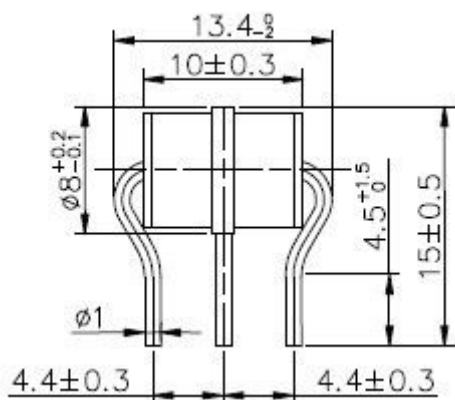


3-Electrode Gas Discharge Tubes

20KA

1: Dimension(mm)

Fast Delivery Time



2: Main Applications

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

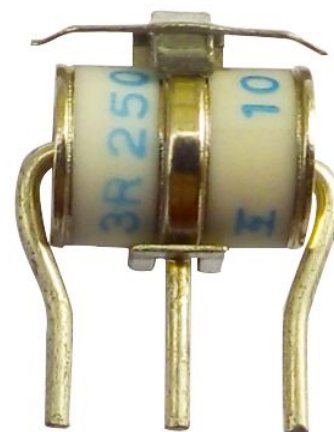
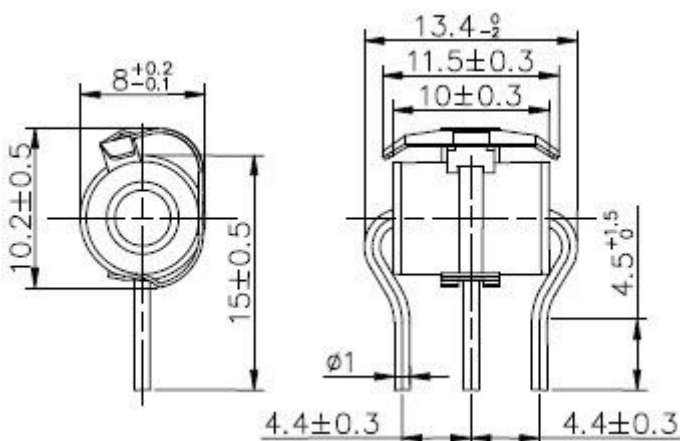
- 100% Lead-Free (RoHS Compliant)
- Non-Radioactive
- Low capacitance ($\leq 1\text{pF}$)
- Fast Response-time, High Insulation Resistance.
- Small size : Ø8x10(mm)

4 Electrical Characteristics

Part Number	DC Spark-over Voltage @ 100V/S	Impulse Spark-over Voltage @100V/ μs	Impulse Spark-over Voltage @1KV/ μs	Insulation Resistance	Impulse discharge current(8/20 μs)	AC discharge current (50Hz, 1s, 10 times)	Capacitance (1MHz)
	V	V	V	G Ω	10 Times	A	PF
HA3R75D	75 $\pm 20\%$	<500	<600	>1	20KA	20	≤ 1
HA3R90D	90 $\pm 20\%$	<500	<600	>1	20KA	20	≤ 1
HA3R150D	150 $\pm 20\%$	<500	<600	>1	20KA	20	≤ 1
HA3R230D	230 $\pm 20\%$	<600	<700	>1	20KA	20	≤ 1
HA3R250D	250 $\pm 20\%$	<600	<700	>1	20KA	20	≤ 1
HA3R300D	300 $\pm 20\%$	<800	≤ 900	>1	20KA	20	≤ 1
HA3R350D	350 $\pm 20\%$	<900	≤ 1000	>1	20KA	20	≤ 1
HA3R400D	400 $\pm 20\%$	<900	≤ 1000	>1	20KA	20	≤ 1
HA3R420D	420 $\pm 20\%$	<900	≤ 1000	>1	20KA	20	≤ 1
HA3R470D	470 $\pm 20\%$	<1100	≤ 1200	>1	20KA	20	≤ 1
HA3R500D	500 $\pm 20\%$	<1100	≤ 1200	>1	20KA	20	≤ 1
HA3R600D	600 $\pm 20\%$	<1200	≤ 1300	>1	20KA	20	≤ 1
HA3R800D	800 $\pm 20\%$	<1300	≤ 1400	>1	20KA	20	≤ 1

1: Dimension(mm)

continued

20KA


With Fail-safe

2 Electrical Characteristics

Part Number	DC Spark-over Voltage @ 100V/S	Impulse Spark-over Voltage @100V/ μ s	Impulse Spark-over Voltage @1KV/ μ s	Insulation Resistance	Impulse discharge current(8/20 μ s)	AC discharge current (50Hz, 1s, 10times)	Capacitance (1MHz)
With Fail-safe	V	V	V	G Ω	10 Times	A	PF
HA3R75DF	75 $\pm$ 20%	<500	<600	>1	20KA	20	≤ 1
HA3R90DF	90 $\pm$ 20%	<500	<600	>1	20KA	20	≤ 1
HA3R150DF	150 $\pm$ 20%	<500	<600	>1	20KA	20	≤ 1
HA3R230DF	230 $\pm$ 20%	<600	<700	>1	20KA	20	≤ 1
HA3R250DF	250 $\pm$ 20%	<600	<700	>1	20KA	20	≤ 1
HA3R300DF	300 $\pm$ 20%	<800	≤ 900	>1	20KA	20	≤ 1
HA3R350DF	350 $\pm$ 20%	<900	≤ 1000	>1	20KA	20	≤ 1
HA3R400DF	400 $\pm$ 20%	<900	≤ 1000	>1	20KA	20	≤ 1
HA3R420DF	420 $\pm$ 20%	<900	≤ 1000	>1	20KA	20	≤ 1
HA3R470DF	470 $\pm$ 20%	<1100	≤ 1200	>1	20KA	20	≤ 1
HA3R500DF	500 $\pm$ 20%	<1100	≤ 1200	>1	20KA	20	≤ 1
HA3R600DF	600 $\pm$ 20%	<1200	≤ 1300	>1	20KA	20	≤ 1
HA3R800DF	800 $\pm$ 20%	<1300	≤ 1400	>1	20KA	20	≤ 1

Packing Quantity : 100PCS

Cross Reference List (Ø8x10mm)

HUAAN Gas Discharge Tube Part Number	Cross Reference		
	Littelfuse Gas Discharge Tube Part Number	Bourns Gas Discharge Tube Part Number	TDK EPCOS Surge Arrester Part Number
HA3R75D	PMT3(310)07504	2026-07-C2LF	
HA3R90D	PMT3(310)09004 SL1021B090R SL1024B090R PMT809004	2026-09-C2LF	
HA3R150D	PMT3(310)15004 SL1021B150R SL1024B150R	2026-15-C2LF	
HA3R230D	PMT3(310)23004 SL1021B230R SL1024B230R PMT823004	2026-23-C2LF	T23-A230X B88069X8740B502
HA3R250D	PMT3(310)25004 SL1021B250R SL1024B250R PMT825004	2026-25-C2LF	T23-A250X B88069X8840B252
HA3R300D	SL1021B300R SL1024B300R	2026-30-C2LF	
HA3R350D	PMT3(310)35004 SL1021B350R SL1024B350R PMT835004	2026-35-C2LF	T23-A350X B88069X7200B502 T23-C350XS B88069X8160B502
HA3R400D	PMT3(310)40004 SL1021B400R SL1024B400R PMT840004	2026-40-C2LF	
HA3R420D	SL1021B420R SL1024B420R	2026-42-C2LF	T23-A420X B88069X8070B502
HA3R470D		2026-47-C2LF	
HA3R500D	SL1021B500R SL1024B500R		
HA3R600D		2026-60-C2LF	
HA3R75DF	PMT3(310)07504F	2026-07-C2FLF	

HA3R90DF	PMT3(310)09004F SL1021B090RRF / G SL1024B090RRF / G PMT809004F	2026-09-C2FLF	
HA3R150DF	PMT3(310)15004F SL1021B150RRF / G SL1024B150RRF / G	2026-15-C2FLF	
HA3R230DF	PMT3(310)23004F SL1021B230RRF / G SL1024B230RRF / G PMT823004F	2026-23-C2FLF	T25-A230XF1 B88069X8630B102 B88069X8630B502
HA3R250DF	PMT3(310)25004F SL1021B250RRF / G SL1024B250RRF / G PMT825004F	2026-25-C2FLF	T23-A250XF1 B88069X9810B502
HA3R300DF	SL1021B300RRF / G SL1024B300RRF / G	2026-30-C2FLF	
HA3R350DF	PMT3(310)35004F SL1021B350RRF / G SL1024B350RRF / G PMT835004F	2026-35-C2FLF	T23-A350XF1 B88069X7240B502
HA3R400DF	PMT3(310)40004F SL1021B400RRF / G SL1024B400RRF / G PMT840004F	2026-40-C2FLF	
HA3R420DF	SL1021B420RRF / G SL1024B420RRF / G	2026-42-C2FLF	T23-A420XF1 B88069X6210B502
HA3R470DF		2026-47-C2FLF	
HA3R500DF	SL1021B500RRF / G SL1024B500RRF / G		
HA3R600DF		2026-60-C2FLF	
HA3R800DF			

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We do not ensure characteristics of HUAAN products just same as products of Littelfuse or bourns or TDK / EPCOS.

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