

1/4" x 1 1/4" time-delay fuses

### MDL-V (axial leads)

#### MDL

**Specifications Description:**  
Time-delay fuse.

**Dimensions:** 1/4" x 1 1/4"  
(6.4 x 31.7mm).

#### Construction:

Glasstube with nickel-plated brass endcaps.

#### Ratings:

Volts — 250Vac (1/16-8A)  
— 32Vac (9-30A)  
— 32Vdc (Self Certified)

Amps — 1/16-30A

IR\* — 35A (1/16-1A @ 250Vac)  
— 100A (1 1/4-3A @ 250Vac)  
— 200A (4-8A @ 250Vac)  
— 10000A (1/16-8A @ 125Vac)  
— 1000A (9-30A @ 32Vac)

\*Interrupting ratings were measured at 70% – 80% power factor on AC, and at a time constant described in UL 198L.

**Agency information:** CE, UL Listed, Guide JDYX, File E19180, 1/16-8A; CSA Certification Class 1422-01, 1/16-8A; UL Recognized, Guide JDYX2, File E19180, 9-30A; CSA Component Acceptance, Class 142230, 9-30A.

#### Features and benefits

- Time-delay allows close sizing on inductive circuits.

#### Typical applications

- Electronic circuits

#### Catalog numbers (amps)

##### With axial leads

MDL-V-1/16-R	MDL-V-1-R	MDL-V-6-R
MDL-V-1/8-R	MDL-V-1-1/4-R	MDL-V-7-R
MDL-V-1/4-R	MDL-V-1-1/2-R	MDL-V-8-R
MDL-V-3/8-R	MDL-V-2-R	MDL-V-9-R
MDL-V-1/2-R	MDL-V-2-1/4-R	MDL-V-10-R
MDL-V-3/4-R	MDL-V-2-1/2-R	MDL-V-12-R
MDL-V-5/8-R	MDL-V-3-R	MDL-V-15-R
MDL-V-3/4-R	MDL-V-3-3/8-R	MDL-V-20-R
MDL-V-1-1/4-R	MDL-V-4-R	MDL-V-25*
MDL-V-1-1/2-R	MDL-V-5-R	MDL-V-30*

##### Without axial leads

MDL-1/16-R	MDL-1-R	MDL-6-R
MDL-1/8-R	MDL-1-1/4-R	MDL-7-R
MDL-1/4-R	MDL-1-1/2-R	MDL-8-R
MDL-3/8-R	MDL-2-R	MDL-9-R
MDL-1/2-R	MDL-2-1/4-R	MDL-10-R
MDL-3/4-R	MDL-2-1/2-R	MDL-12-R
MDL-5/8-R	MDL-3-R	MDL-15-R
MDL-3/4-R	MDL-3-3/8-R	MDL-20-R
MDL-1-1/4-R	MDL-4-R	MDL-25*
MDL-1-1/2-R	MDL-5-R	MDL-30*

\*MDL-25 & MDL-30 are not available in RoHS compliant construction.

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### MDQ-V (axial leads)

#### MDQ

**Specifications Description:**  
Dual-element, time-delay fuse.

**Dimensions:** 1/4" x 1 1/4"  
(6.4 x 31.7mm).

**Construction:** Glass tube with nickel-plated brass endcaps.

#### Ratings:

Volts — 250Vac (1/100-7A)  
— 32Vac (7 1/2-15A)  
— 32Vdc (Self Certified)

Amps — 1/100-15A

IR — 35A (1/100-1A @ 250Vac)  
— 100A (1 1/4-3A @ 250Vac)  
— 200A (4-7A @ 250Vac)  
— 1000A (7 1/2-12A @ 32Vac)

**Agency information:** Std. 248-14, UL Listed, File E19180; Guide JDYX, 1/16-7A CSA Certification, File 47233, Class 1422-01, 1/16-7A, UL Recognized, Guide JDYX2, File E19180, 7.1-30A.

#### Features and benefits

- Dual-element design allows closer sizing to inductive circuits than any other fuses.

#### Typical applications

- Electronic relay and control circuits

#### Catalog numbers (amps)

##### With axial leads

MDQ-V-1/100	MDQ-V-1/50	MDQ-V-1-1/2	MDQ-V-5
MDQ-V-1/50	MDQ-V-1/25	MDQ-V-1-3/4	MDQ-V-6
MDQ-V-1/25	MDQ-V-1/10	MDQ-V-1-3/4	MDQ-V-6-1/4
MDQ-V-1/10	MDQ-V-1/5	MDQ-V-2	MDQ-V-7
MDQ-V-1/5	MDQ-V-1/2	MDQ-V-2-1/4	MDQ-V-7-1/2
MDQ-V-1/2	MDQ-V-1	MDQ-V-2-1/2	MDQ-V-8
MDQ-V-1/100	MDQ-V-1/50	MDQ-V-2-3/4	MDQ-V-8
MDQ-V-1/50	MDQ-V-1/25	MDQ-V-2-3/4	MDQ-V-9
MDQ-V-1/25	MDQ-V-1	MDQ-V-3	MDQ-V-10
MDQ-V-1/10	MDQ-V-1-1/4	MDQ-V-3-3/4	MDQ-V-12
MDQ-V-1/5	MDQ-V-1-1/2	MDQ-V-4	MDQ-15

##### Without axial leads

MDQ-1/100	MDQ-1/50	MDQ-1-1/2	MDQ-5
MDQ-1/50	MDQ-1/25	MDQ-1-3/4	MDQ-6
MDQ-1/25	MDQ-1/10	MDQ-1-3/4	MDQ-6-1/4
MDQ-1/10	MDQ-1/5	MDQ-2	MDQ-7
MDQ-1/5	MDQ-1/2	MDQ-2-1/4	MDQ-7-1/2
MDQ-1/2	MDQ-1	MDQ-2-1/2	MDQ-8
MDQ-1/100	MDQ-1/50	MDQ-2-3/4	MDQ-9
MDQ-1/50	MDQ-1/25	MDQ-2-3/4	MDQ-9
MDQ-1/25	MDQ-1	MDQ-3	MDQ-10
MDQ-1/10	MDQ-1-1/4	MDQ-3-3/4	MDQ-12
MDQ-1/5	MDQ-1-1/2	MDQ-4	MDQ-15

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### MDA-V (axial leads)

#### MDA

**Specifications Description:** Time-delay fuse.  
**Dimensions:** 1/4" x 1 1/4" (6.35 x 31.75mm).

**Construction:** Ceramic tube with nickel-plated brass endcaps.

#### Ratings:

Volts — 250Vac (or less)  
— 125Vdc (20A- 30A)  
— 32Vdc (Self certified)

Amps — 1/4-30A

IR\*\* — 35A (1/4-1A @ 250Vac)  
— 100A (1 1/2-2A @ 250Vac)  
— 200A (2 1/2-10A @ 250Vac)  
— 750A (12-15A @ 250Vac)  
— 1500A (20-30A @ 250Vac)  
— 10kA (1/4-30A @ 125Vac)  
— 10kA (20-30A @ 125Vdc)

\*\*Interrupting ratings were measured at 70% – 80% power factor on AC, and at a time constant described in UL 248.

**Agency information:** CE, Std. 248-14, UL Listed, Guide JDYX, File E19180, 0-20A CSA Certification, Class 1422-01, File 53787, 0-20A. UL Recognized, Guide JDYX2, File E19180, 25-30A, CSA Component Acceptance, Class 1422-30, 25-30A

#### Features and benefits

- Ceramic body allows for higher amp/volt rating combinations.
- Inventory consolidation by replacing MDL fuses allows for reduced SKU investment and minimizing potential for misapplying fuse.

#### Typical applications

- Electronic circuits

#### Catalog numbers (amps)

##### With axial leads

MDA-V-1/4-R	MDA-V-3-R	MDA-V-12-R
MDA-V-1/2-R	MDA-V-4-R	MDA-V-15-R
MDA-V-3/4-R	MDA-V-5-R	MDA-V-20-R
MDA-V-1-R	MDA-V-6-R	MDA-V-25A-R
MDA-V-1-1/2-R	MDA-V-7-R	MDA-V-30A-R
MDA-V-2-R	MDA-V-8-R	
MDA-V-2-1/2-R	MDA-V-10-R	

##### Without axial leads

MDA-1/4-R	MDA-3-R	MDA-12-R
MDA-1/2-R	MDA-4-R	MDA-15-R
MDA-3/4-R	MDA-5-R	MDA-20-R
MDA-1-R	MDA-6-R	MDA-25A-R
MDA-1-1/2-R	MDA-7-R	MDA-30A-R
MDA-2-R	MDA-8-R	
MDA-2-1/2-R	MDA-10-R	

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1/4" x 1 1/4" time-delay fuses

### MDL-V (axial leads)

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#### Features and benefits

- Time-delay allows close sizing on inductive circuits.

#### Typical applications

- Electronic circuits

#### Catalog numbers (amps)

##### With axial leads

MDL-V-1/16-R	MDL-V-1-R	MDL-V-6-R
MDL-V-1/8-R	MDL-V-1-1/4-R	MDL-V-7-R
MDL-V-1/4-R	MDL-V-1-1/2-R	MDL-V-8-R
MDL-V-3/8-R	MDL-V-2-R	MDL-V-9-R
MDL-V-1/2-R	MDL-V-2-1/4-R	MDL-V-10-R
MDL-V-3/4-R	MDL-V-2-1/2-R	MDL-V-12-R
MDL-V-5/8-R	MDL-V-3-R	MDL-V-15-R
MDL-V-3/4-R	MDL-V-3-3/8-R	MDL-V-20-R
MDL-V-1-1/4-R	MDL-V-4-R	MDL-V-25*
MDL-V-1-1/2-R	MDL-V-5-R	MDL-V-30*

##### Without axial leads

MDL-1/16-R	MDL-1-R	MDL-6-R
MDL-1/8-R	MDL-1-1/4-R	MDL-7-R
MDL-1/4-R	MDL-1-1/2-R	MDL-8-R
MDL-3/8-R	MDL-2-R	MDL-9-R
MDL-1/2-R	MDL-2-1/4-R	MDL-10-R
MDL-3/4-R	MDL-2-1/2-R	MDL-12-R
MDL-5/8-R	MDL-3-R	MDL-15-R
MDL-3/4-R	MDL-3-3/8-R	MDL-20-R
MDL-1-1/4-R	MDL-4-R	MDL-25*
MDL-1-1/2-R	MDL-5-R	MDL-30*

\*MDL-25 & MDL-30 are not available in RoHS compliant construction.

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### MDQ-V (axial leads)

#### MDQ

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**Construction:** Glass tube with nickel-plated brass endcaps.

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Amps — 1/100-15A

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**Agency information:** Std. 248-14, UL Listed, File E19180; Guide JDYX, 1/16-7A CSA Certification, File 47233, Class 1422-01, 1/16-7A, UL Recognized, Guide JDYX2, File E19180, 7.1-30A.

#### Features and benefits

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#### Typical applications

- Electronic relay and control circuits

#### Catalog numbers (amps)

##### With axial leads

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MDQ-V-1/50	MDQ-V-1/25	MDQ-V-1-3/4	MDQ-V-6
MDQ-V-1/25	MDQ-V-1/10	MDQ-V-1-3/4	MDQ-V-6-1/4
MDQ-V-1/10	MDQ-V-1/5	MDQ-V-2	MDQ-V-7
MDQ-V-1/5	MDQ-V-1/2	MDQ-V-2-1/4	MDQ-V-7-1/2
MDQ-V-1/2	MDQ-V-1	MDQ-V-2-1/2	MDQ-V-8
MDQ-V-1/100	MDQ-V-1/50	MDQ-V-2-3/4	MDQ-V-8
MDQ-V-1/50	MDQ-V-1/25	MDQ-V-2-3/4	MDQ-V-9
MDQ-V-1/25	MDQ-V-1	MDQ-V-3	MDQ-V-10
MDQ-V-1/10	MDQ-V-1-1/4	MDQ-V-3-3/4	MDQ-V-12
MDQ-V-1/4	MDQ-V-1-1/2	MDQ-V-4	MDQ-15

##### Without axial leads

MDQ-1/100	MDQ-1/50	MDQ-1-1/2	MDQ-5
MDQ-1/50	MDQ-1/25	MDQ-1-3/4	MDQ-6
MDQ-1/25	MDQ-1/10	MDQ-1-3/4	MDQ-6-1/4
MDQ-1/10	MDQ-1/5	MDQ-2	MDQ-7
MDQ-1/5	MDQ-1/2	MDQ-2-1/4	MDQ-7-1/2
MDQ-1/2	MDQ-1	MDQ-2-1/2	MDQ-8
MDQ-1/100	MDQ-1/50	MDQ-2-3/4	MDQ-9
MDQ-1/50	MDQ-1	MDQ-2-3/4	MDQ-10
MDQ-1/25	MDQ-1-1/4	MDQ-3	MDQ-12
MDQ-1/10	MDQ-1-1/2	MDQ-3-3/4	MDQ-12
MDQ-1/4	MDQ-1-1/2	MDQ-4	MDQ-15

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### MDA-V (axial leads)

#### MDA

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**Construction:** Ceramic tube with nickel-plated brass endcaps.

#### Ratings:

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— 125Vdc (20A- 30A)  
— 32Vdc (Self certified)

Amps — 1/4-30A

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— 100A (1 1/2-2A @ 250Vac)  
— 200A (2 1/2-10A @ 250Vac)  
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#### Features and benefits

- Ceramic body allows for higher amp/volt rating combinations.
- Inventory consolidation by replacing MDL fuses allows for reduced SKU investment and minimizing potential for misapplying fuse.

#### Typical applications

- Electronic circuits

#### Catalog numbers (amps)

##### With axial leads

MDA-V-1/4-R	MDA-V-3-R	MDA-V-12-R
MDA-V-1/2-R	MDA-V-4-R	MDA-V-15-R
MDA-V-3/4-R	MDA-V-5-R	MDA-V-20-R
MDA-V-1-R	MDA-V-6-R	MDA-V-25A-R
MDA-V-1-1/2-R	MDA-V-7-R	MDA-V-30A-R
MDA-V-2-R	MDA-V-8-R	
MDA-V-2-1/2-R	MDA-V-10-R	

##### Without axial leads

MDA-1/4-R	MDA-3-R	MDA-12-R
MDA-1/2-R	MDA-4-R	MDA-15-R
MDA-3/4-R	MDA-5-R	MDA-20-R
MDA-1-R	MDA-6-R	MDA-25A-R
MDA-1-1/2-R	MDA-7-R	MDA-30A-R
MDA-2-R	MDA-8-R	
MDA-2-1/2-R	MDA-10-R	

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