

Electronic fuses

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5 x 15mm ferrule fuses

C515 (axial leads)

C519

Specifications
Description:
Time-delay fuse.

Dimensions:
5 x 15mm
(0.197" X 0.591").

Construction:
Glass tube.

Ratings:

- Volts — 125Vac (3.5-7A)
- 250Vac (125mA-3A)
- Amps — 125mA-7A
- IR — 35A (125mA-1A @ 250Vac, p.f. = 0.7-0.8)
- 10kA (125mA-3A @ 125Vac, p.f. = 0.7-0.8)
- 25A (350mA @ 600V, p.f. = 0.7-0.8)
- 100A (1.25-3A @ 250Vac, p.f. = 0.7-0.8)
- 400A (3.5-7A @ 125Vac, p.f. = 1.0)

Agency Information: CE, UL Listing File E19180, Guide JDYX 125mA-250mA and 375mA-3A CSA Certification File LR65063, Class 1422-01, 125mA-250mA and 375mA-3A, UL Recognized, File E19180, Guide JDYX2, 350mA and 3.5A-7A.

Features and Benefits

- Time-delay for closer sizing on inductive circuits.

Typical Application

- Electronic Circuits
- Printed Circuit Boards

Catalog Numbers (Amps)

With Axial Leads

C515-125-R	C515-750-R	C515-2.25-R
C515-250-R	C515-1-R	C515-3-R
C515-350-R	C515-1.25-R	C515-3.5-R
C515-375-R	C515-1.5-R	C515-4-R
C515-500-R	C515-1.6-R	C515-5-R
C515-600-R	C515-2-R	C515-7-R

Without Axial Leads

C519-125-R	C519-750-R	C519-2.25-R
C519-250-R	C519-1-R	C519-3-R
C519-350-R	C519-1.25-R	C519-3.5-R
C519-375-R	C519-1.5-R	C519-4-R
C519-500-R	C519-1.6-R	C519-5-R
C519-600-R	C519-2-R	C519-7-R

Data Sheet: 2006 (C515) & 2007 (C519)

C518 (axial leads)

C520

Specifications
Description:
Fast-acting fuse.

Dimensions:
5 x 15mm
(0.197" X 0.591").

Construction:
Glass tube.

Ratings:

- Volts — 250Vac
- Amps — 100mA-5A
- IR — 35A (100mA-750mA @ 250V, p.f. = 0.7-0.8)
- 10kA (100mA-5A @ 125V, p.f. = 0.7-0.8)
- 100A (1-3.5A @ 250V, p.f. = 0.7-0.8)
- 200A (4-5A @ 250V, p.f. = 0.7-0.8)

Agency Information: CE, UL Listing File E19180, Guide JDYX CSA Certification File LR65063, Class 1422-01.

Features and Benefits

- Small footprint saves space in equipment.
- Fast-acting for maximum component protection.
- Available in clip mount and solder-in configurations

Typical Applications

- Electronic Circuits
- Printed circuit Boards

Catalog Numbers (Amps)

With Axial Leads

C518-100-R	C518-750-R	C518-3-R
C518-125-R	C518-1-R	C518-3.5-R
C518-250-R	C518-1.5-R	C518-4-R
C518-375-R	C518-2-R	C518-5-R
C518-500-R	C518-2.5-R	

Without Axial Leads

C520-100-R	C520-750-R	C520-3-R
C520-125-R	C520-1-R	C520-3.5-R
C520-250-R	C520-1.5-R	C520-4-R
C520-375-R	C520-2-R	C520-5-R
C520-500-R	C520-2.5-R	

Data Sheet: 2026 (C518) & 2027 (C520)

C517 (axial leads)

Specifications

Description: Fast-acting fuse.

Dimensions: 5 x 15mm
(0.197" X 0.591").

Construction: Glass tube.

Ratings:

- Volts — 350Vac*
- Amps — 3A
- IR — 100A @ 350Vac, p.f. = 1.0
- 100A @ 250Vac, p.f. = 0.7-0.8
- 10kA @ 125Vac, p.f. = 0.7-0.8

*350Vac/100A is UL Recognized

Agency Information: CE, UL Listing File E19180, Guide JDYX CSA Certification File LR65063, Class 1422-01 UL Recognized, File E19180, Guide JDYX2.

- Small footprint saves space in equipment.
- Fast-acting for maximum component protection.
- 350Vac rating for 277V ballast circuit protection.

Typical Applications

- Electronic Circuits
- Printed Circuit Boards
- Electronic Ballast Protection

Catalog Number (Amps)

With Axial Leads
C517-3



5 x 20mm European (IEC) ferrule fuses

Electronic Fuses

S500-V (GDB-V)* (axial leads)

S500 (GDB)*

Specifications
Description: Fast-acting, low-breaking capacity fuse.

Construction: Glass tube, nickel-plated brass end-caps.

Ratings:

- Volts — 250Vac (or less)
- Amps — 32mA-16A
- IR — See catalog table



Agency Information: CE, Designed to IEC 60127-Sheet II British Standard Approval SEMKO Approval VDE Approval, IMQ UL Recognized, Guide JDYX2, File E19180, 32mA-6.3A.

Features and Benefits

- Fast-acting for maximum protection, conforms to IEC standards.

Typical Applications

- Electronic Circuits

Catalog Numbers (Amps)

Catalog Numbers	IR (Amps)	I ² t	Max Voltage Drop (mV)
S500-32-R	35	0.000047	3200
S500-40-R	35	0.00011	2500
S500-50-R	35	0.00020	2400
S500-63-R	35	0.00057	2000
S500-80-R	35	0.0012	1200
S500-100-R	35	0.003	1100
S500-125-R	35	0.005	1000
S500-160-R	35	0.008	2000
S500-200-R	35	0.016	1700
S500-250-R	35	0.028	1400
S500-315-R	35	0.058	1300
S500-400-R	35	0.018	1100
S500-500-R	35	0.018	220
S500-630-R	35	0.035	220
S500-800-R	35	0.067	140
S500-1-R	35	0.60	200
S500-1.25-R	35	0.84	200
S500-1.6-R	35	1.6	190
S500-2-R	35	4.2	150
S500-2.5-R	35	6.1	150
S500-3.15-R	35	13	130
S500-4-R	40	22	130
S500-5-R	50	42	120
S500-6.3-R	63	69	120
S500-8-R	80	-	120
S500-10-R	100	-	120

*IEC Standard 127 Sheet II does not include ratings above 6.3A.

Options

Axial leads, put "V" in P/N,
 *S500 Series is the new RoHS compliant version of the GDB. Please contact Customer Satisfaction for GDB ordering information.
 **GDB series is not available in RoHS compliant construction.

Data Sheet: 2015 (GDB)

S501-V (GDA-V)* (axial leads)

S501 (GDA)*

Specifications
Description: Fast-acting, high-breaking capacity fuse.

Construction: Ceramic tube, nickel-plated brass end-caps.

Ratings:

- Volts — 250Vac (or less)
- Amps — 50mA-10A**
- IR — 1500A @ 250Vac



Agency Information: CE, UL Recognized, SEMKO Approval, VDE Approval.

See data sheet for complete agency information.

Features and Benefits

- Fast-acting for maximum protection.
- High break capacity for use in higher fault energy electronic circuitry.
- Conforming to IEC standards.

Typical Applications

- Electronic Circuits

Catalog Numbers (Amps)

Catalog Numbers	I ² t	Typical Voltage Drop (mV)
S501-50-R	0.0017	9000
S501-63-R	0.0005	3300
S501-80-R	0.0011	2600
S501-100-R	0.0018	2300
S501-125-R	0.0037	1900
S501-160-R	0.008	1600
S501-200-R	0.020	1350
S501-250-R	0.027	1300
S501-315-R	0.010	1400
S501-400-R	0.018	1200
S501-500-R	0.038	1050
S501-630-R	0.064	1200
S501-800-R	0.097	490
S501-1-R	0.146	330
S501-1.25-R	0.313	297
S501-1.6-R	0.748	239
S501-2-R	2.0	205
S501-2.5-R	3.9	190
S501-3.15-R	8.1	160
S501-4-R	14	160
S501-5-R	25	155
S501-6.3-R	48	150
S501-8-R	N/A	N/A
S501-10-R	N/A	N/A

Options

Axial leads, put "V" in P/N.
 *GDA series is not available in RoHS compliant construction.
 **GDA is not available above 6.3A.

Data Sheet: 2014

S506-V (GDC-V)* (axial leads)

S506 (GDC)*

Specifications
Description: Time-delay, low-breaking capacity fuse.

Construction: Glass tube, nickel-plated brass end-caps.

Ratings:

- Volts — 250Vac (or less)
- Amps — 32mA-15A**
- IR — 35A @ 250Vac



Agency Information: UR, CSA, SEMKO, VDE, BSI, IMQ, PSE, CCC.

See data sheet for complete agency information.

Features and Benefits

- Time-delay compatibility for inductive circuits.
- Conforming to IEC standards.

Typical Applications

- Electronic Circuits

Catalog Numbers (Amps)

Catalog Numbers	Typical I ² t	Max Voltage Drop (mV)
S506-32-R	0.0051	1050
S506-40-R	0.0072	920
S506-50-R	0.0095	800
S506-63-R	0.021	760
S506-80-R	0.038	580
S506-100-R	0.045	490
S506-125-R	0.063	390
S506-160-R	0.093	320
S506-200-R	0.114	340
S506-250-R	0.265	270
S506-315-R	0.621	250
S506-400-R	0.872	210
S506-500-R	0.827	140
S506-630-R	1.33	150
S506-800-R	2.78	75
S506-1-R	6.45	87.5
S506-1.25-R	10.05	86
S506-1.6-R	21.7	82
S506-2-R	31.6	77
S506-2.5-R	59.4	72.5
S506-3.15-R	96.4	68.5
S506-4-R	71.8	67
S506-5-R	142.5	60.5
S506-6.3-R	237.6	54
S506-8-R	255.8	55
S506-10-R	450	54
S506-12.5-R	1019.5	45
S506-15-R	1091.7	65.5

Options

Axial leads, put "V" in P/N.
 *GDC is not available above 6.3A.
 **GDC series is not available in RoHS compliant construction.

Data Sheet: 2016 (GDC), 4332 (S506)

5 x 20mm North American (UL) ferrule fuses

GMA-V (axial leads)

GMA

Specifications
Description:
Fast-acting fuse.

Dimensions:
5 x 20mm
(0.197" x 0.788").

Construction:
Glass tube,
nickel-plated brass endcaps.

Ratings:

- Volts — 250Vac (63mA-2.5A)
- 125Vac (3.15-15A)
- Amps — 63mA-15A
- IR — 35A (63mA- 1A @ 250Vac, p.f. = 0.7-0.8)
- 10kA (63mA-6A @ 125Vac, p.f. = 0.7-0.8)
- 100A (1.25-2.5A @ 250Vac, p.f. = 0.7-0.8)
- 200A (7-8A @ 125Vac, p.f. = 1.0)
- 150A (10-15A @ 125Vac, p.f. = 1.0)

Agency Information: CE, Std. 248-14 UL Listed Guide JDYX, File E19180, 0-6A, UL Recognized, Guide JDYX2, File E19180, 7-15A, CSA Certified, Class 1422-01, File E65063, 0-6.

Features and Benefits

- Fast-acting for maximum protection.

Typical Applications

- Electronic Circuits

Catalog Numbers (Amps)

With Axial Leads

GMA-V-63-R	GMA-V-800-R	GMA-V-4-R
GMA-V-100-R	GMA-V-1-R	GMA-V-5-R
GMA-V-125-R	GMA-V-1.25-R	GMA-V-6-R
GMA-V-200-R	GMA-V-1.5-R	GMA-V-7-R
GMA-V-250-R	GMA-V-1.6-R	GMA-V-8-R
GMA-V-300-R	GMA-V-2-R	GMA-V-10-R
GMA-V-500-R	GMA-V-2.5-R	GMA-V-15-R
GMA-V-600-R	GMA-V-3.15-R	
GMA-V-750-R	GMA-V-3.5-R	

Without Axial Leads

GMA-63-R	GMA-800-R	GMA-4-R
GMA-100-R	GMA-1-R	GMA-5-R
GMA-125-R	GMA-1.25-R	GMA-6-R
GMA-200-R	GMA-1.5-R	GMA-7-R
GMA-250-R	GMA-1.6-R	GMA-8-R
GMA-300-R	GMA-2-R	GMA-10-R
GMA-500-R	GMA-2.5-R	GMA-15-R
GMA-600-R	GMA-3.15-R	
GMA-750-R	GMA-3.5-R	

Data Sheet: 2017

GMC-V (axial leads)

GMC

Specifications
Description: Medium time-delay fuse.

Dimensions: 5 x 20mm
(0.197" x 0.788").

Construction: Glass tube, nickel-plated brass endcaps.

Ratings:

- Volts — 250Vac (63mA-3.15A)
- 125Vac (3.5-10A)
- Amps — 63mA-10A
- IR — 35A (63mA- 1A @ 250Vac, p.f. = 0.7-0.8)
- 10kA (63mA-6A @ 125Vac, p.f. = 0.7-0.8)
- 100A (1.25-3.15A @ 250Vac, p.f. = 0.7-0.8)
- 200A (6.3-10A @ 125Vac, p.f. = 1.0)

Agency Information: CE, Std. 248-14, UL Listed Guide JDYX, File E19180, 0-6.3A, UL Recognized, Guide JDYX2, File E19180, 7-8A, CSA Certified, Class 1422-01, File 65063, 0-6.3A.

Features and Benefits

- Conforming to UL standards.

Typical Applications

- Electronic Circuits

Catalog Numbers (Amps)

With Axial Leads

GMC-V-63-R	GMC-V-500-R	GMC-V-2.5
GMC-V-80-R	GMC-V-600-R	GMC-V-3.15
GMC-V-100-R	GMC-V-630-R	GMC-V-3.5
GMC-V-125-R	GMC-V-750-R	GMC-V-4
GMC-V-150-R	GMC-V-800-R	GMC-V-5
GMC-V-200-R	GMC-V-1-R	GMC-V-6
GMC-V-250-R	GMC-V-1.25-R	GMC-V-6.3
GMC-V-300-R	GMC-V-1.5-R	GMC-V-7
GMC-V-315-R	GMC-V-1.6-R	GMC-V-8
GMC-V-400-R	GMC-V-2-R	GMC-V-10

Without Axial Leads

GMC-63mA	GMC-500-R	GMC-2.5-R
GMC-80mA	GMC-600-R	GMC-3.15-R
GMC-100mA	GMC-630-R	GMC-3.5-R
GMC-125mA	GMC-750-R	GMC-4-R
GMC-150mA	GMC-800-R	GMC-5-R
GMC-200mA	GMC-1-R	GMC-6-R
GMC-250mA	GMC-1.25-R	GMC-6.3-R
GMC-300mA	GMC-1.5-R	GMC-7-R
GMC-315mA	GMC-1.6-R	GMC-8-R
GMC-400mA	GMC-2-R	GMC-10-R

Data Sheet: 2018

GMD-V (axial leads)

GMD

Specifications
Description: Time-delay fuse.

Dimensions:
5 x 20mm
(0.197" x 0.788").

Construction:
Glass tube, nickel-plated brass endcaps.

Ratings:

- Volts — 250Vac
- Amps — 125mA-4A
- IR — 10kA (125mA-3A @ 125Vac, p.f. = 0.7-0.8)
- 10kA (4A @ 125Vac, p.f. = 1.0)
- 35A (125mA-1A @ 250Vac, p.f. = 0.7-0.8)
- 100A (1.2A-3A @ 250Vac, p.f. = 0.7-0.8)
- 200A (4A @ 250Vac, p.f. = 1.0)

Agency Information: CE, UL Listed Guide JDYX, File E19180, 125mA-3A, UL Recognized, Guide JDYX2, File E19180, 4A, CSA Certified, Class 1422-01, File 53787, 0-4A, PSE/JET. File 1641-31003-1001, 1.2A-4A.

Features and Benefits

- Time-delay compatibility for inductive circuits.
- Conforming to UL standards.

Typical Applications

- Electronic Circuits

Catalog Numbers (Amps)

With Axial Leads

GMD-V-125-R	GMD-V-500-R	GMD-V-1.5-R
GMD-V-150-R	GMD-V-600-R	GMD-V-1.6-R
GMD-V-200-R	GMD-V-630-R	GMD-V-2-R
GMD-V-250-R	GMD-V-750-R	GMD-V-2.5-R
GMD-V-300-R	GMD-V-800-R	GMD-V-3-R
GMD-V-315-R	GMD-V-1-R	GMD-V-4-R
GMD-V-375-R	GMD-V-1.2-R	
GMD-V-400-R	GMD-V-1.25-R	

Without Axial Leads

GMD-125-R	GMD-500-R	GMD-1.5-R
GMD-150-R	GMD-600-R	GMD-1.6-R
GMD-200-R	GMD-630-R	GMD-2-R
GMD-250-R	GMD-750-R	GMD-2.5-R
GMD-300-R	GMD-800-R	GMD-3-R
GMD-315-R	GMD-1-R	GMD-4-R
GMD-375-R	GMD-1.2-R	
GMD-400-R	GMD-1.25-R	

Data Sheet: 2019

1/4" Dia. x 5/8" to 1" length ferrule fuses

AGA-V (axial leads)

AGA

Specifications
Description: Fast-acting fuse.

Dimensions:
1/4" x 5/8"
(6.4 x 15.9mm).

Construction:
Glass tube.

Ratings:
Volts — 125Vac (or less)

Amps — 1/6-30A
IR — 10,000 (1/16-1 1/2A @ 125Vac)
— 200A (2-5A @ 125Vac)
— 1000A (6-30A @ 32Vac)

Agency Information: CE, Std. 248-14, UL File E19180, UL Listed, Guide JDYX 0-1 1/2A UL Recognized, Guide JDYX2 2-12A.

Features and Benefits

- Fast-acting for maximum protection.
- Size rejects insertion of other fuse types.

Typical Applications

- Electronic Circuits

Catalog Numbers (Amps)

With Axial Leads*

AGA-V-1/6	AGA-V-1	AGA-V-7 1/2
AGA-V-1/10	AGA-V-1 1/2	AGA-V-10
AGA-V-1/8	AGA-V-2	AGA-V-15
AGA-V-1/4	AGA-V-2 1/2	AGA-V-20
AGA-V-3/8	AGA-V-3	AGA-V-25
AGA-V-1/2	AGA-V-5	AGA-V-30
AGA-V-3/10	AGA-V-6	
AGA-V-3/4	AGA-V-7	

Without Axial Leads

AGA-1/6	AGA-1	AGA-7 1/2
AGA-1/10	AGA-1 1/2	AGA-10
AGA-1/8	AGA-2	AGA-15
AGA-1/4	AGA-2 1/2	AGA-20
AGA-3/8	AGA-3	AGA-25
AGA-1/2	AGA-5	AGA-30
AGA-3/10	AGA-6	
AGA-3/4	AGA-7	

*AGA-V is UL Listed 0-5A, UL Recognized 6-12A.



AGW

Specifications
Description: Fast-acting fuse.

Dimensions: 1/4" x 7/8"
(6.4 x 22.2mm).

Construction: Glass tube.

Ratings:
Volts — 32Vac
Amps — 1-30A
IR — 100A

Features and Benefits

- Fast-acting for maximum protection.
- Size rejects insertion of other fuse types.

Typical Applications

- Electronic Circuits

Catalog Numbers (Amps)

AGW-1	AGW-4	AGW-15
AGW-1 1/2	AGW-5	AGW-20
AGW-2	AGW-6	AGW-25
AGW-2 1/2	AGW-7 1/2	AGW-30
AGW-3	AGW-10	



AGX-V (axial leads)

AGX

Specifications
Description: Fast-acting fuse.

Dimensions: 1/4" x 1"
(6.4 x 25.4mm).

Construction: Glass tube.

Ratings:
Volts — 250Vac (1/200-2A)
— 125Vac (2 1/2-7A)
— 32V (8-30A)

Amps — 1/200-30A
IR — 35A (1/200-2A @ 250Vac)
— 10,000A (2 1/2-7A @ 125Vac)
— 1000A (8-30A @ 32V)

Agency Information: CE, Std. 248-14, UL File E19180 UL Listed, Guide JDYX, 0-5A UL Recognized, Guide JDYX2, 6-20A CSA File 47233; Class 1422-01, 0-5A.

Features and Benefits

- Size rejects insertion of other fuse types.

Typical Applications

- Electronic Circuits

Catalog Numbers (Amps)

With Axial Leads**

AGX-V-1/200	AGX-V-3/8	AGX-V-4
AGX-V-1/100	AGX-V-1/2	AGX-V-5
AGX-V-1/50	AGX-V-3/4	AGX-V-6
AGX-V-1/25	AGX-V-1	AGX-V-7
AGX-V-1/10	AGX-V-1 1/4	AGX-V-8
AGX-V-1/5	AGX-V-1 1/2	AGX-V-10
AGX-V-3/10	AGX-V-2	AGX-V-15
AGX-V-1/2	AGX-V-2 1/2	AGX-V-20
AGX-V-3/5	AGX-V-3	AGX-V-25
AGX-V-1/10	AGX-V-30	AGX-V-30

Without Axial Leads

AGX-1/200	AGX-3/8	AGX-4
AGX-1/100	AGX-1/2	AGX-5
AGX-1/50	AGX-3/4	AGX-6
AGX-1/25	AGX-1	AGX-7
AGX-1/10	AGX-1 1/4	AGX-8
AGX-1/5	AGX-1 1/2	AGX-10
AGX-3/10	AGX-2	AGX-15
AGX-1/2	AGX-2 1/2	AGX-20
AGX-3/5	AGX-3	AGX-25
AGX-1/10	AGX-30	AGX-30

**AGX-V is UL Recognized from 6-20A @ 32Vac



Electronic
Fuses

1/4" Dia. x 1 1/4" length fast-acting ferrule fuses

AGC-V (axial leads)

AGC

Specifications

Description: Fast-acting fuse.

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

Construction: Glass tube with nickel-plated brass endcaps.

Ratings:

Volts — 250Vac (1/20-10A)
— 32Vac (11-45A)

Amps — 1/20-30A

IR* — 35A (1/20-1A @ 250Vac)
— 100A (1 1/4-3A @ 250Vac)
— 200A (4-10A @ 250Vac)
— 1000A (15-30A @ 32Vac)

*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, 0-10A UL Recognized, Guide JDYX2, File E19180, 15-30A CSA Certification, Class 1422-01, File 53787.

Features and Benefits

- Original electronic glass tube fuse.
- Fast-acting for maximum protection.
- Wide amp/volt ratings allow versatility of protecting electronic circuits.

Typical Applications

- Electronic Circuits

Catalog Numbers (Amps)

With Axial Leads

AGC-V-1/20	AGC-V-1/2	AGC-V-5
AGC-V-1/16	AGC-V-3/4	AGC-V-6
AGC-V-1/10	AGC-V-1	AGC-V-7
AGC-V-1/8	AGC-V-1 1/4	AGC-V-8
AGC-V-3/16	AGC-V-1 1/2	AGC-V-9
AGC-V-3/10	AGC-V-2	AGC-V-10
AGC-V-1/4	AGC-V-2 1/4	AGC-V-15
AGC-V-3/10	AGC-V-2 1/2	AGC-V-20
AGC-V-3/8	AGC-V-3	AGC-V-25
AGC-V-1/200	AGC-V-4	AGC-V-30

Without Axial Leads

AGC-1/20	AGC-1/2	AGC-5
AGC-1/16	AGC-3/4	AGC-6
AGC-1/10	AGC-1	AGC-7
AGC-1/8	AGC-1 1/4	AGC-8
AGC-3/16	AGC-1 1/2	AGC-9
AGC-3/10	AGC-2	AGC-10
AGC-1/4	AGC-2 1/4	AGC-15
AGC-3/10	AGC-2 1/2	AGC-20
AGC-3/8	AGC-3	AGC-25
AGC-1/200	AGC-4	AGC-30



ABC-V (axial leads)

ABC

Specifications

Description: Fast-acting fuse.

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

Construction: Ceramic tube with nickel-plated brass endcaps.

Ratings:

Volts — 250Vac/125Vdc (1/4-20A)
— 125Vac/125Vdc (25-30A)

Amps — 1/4-30A

IR** — 35A (1/4-1A @ 250Vac)
— 10kA (1/4-20A @ 250Vdc)
— 100A (1 1/2-3A @ 250Vac)
— 200A (4-10A @ 250Vac)
— 750A (15A @ 250Vac)
— 400A (20A @ 250Vac)
— 400A (25-30A @ 250Vdc)
— 1kA (25-30A @ 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, 0-15A UL Recognized, Guide JDYX2, File E19180, 20-25A CSA Certification, Class 1422-01, File 53787, 0-15A, Class 1422-30, File 53787, 20-25A.

Features and Benefits

- Ceramic body allows for higher amp/volt rating combinations.
- Consolidate inventory by replacing AGC fuses for reduced SKU investment and minimizing potential for misapplying fuse.

Typical Applications

- Electronic Circuits

Catalog Numbers (Amps)

With Axial Leads

ABC-V-1/4	ABC-V-2 1/2	ABC-V-8
ABC-V-1/2	ABC-V-3	ABC-V-10
ABC-V-3/4	ABC-V-4	ABC-V-15
ABC-V-1	ABC-V-5	ABC-V-20
ABC-V-1 1/2	ABC-V-6	ABC-V-25
ABC-V-2	ABC-V-7	ABC-V-30

Without Axial Leads

ABC-1/4	ABC-2 1/2	ABC-8
ABC-1/2	ABC-3	ABC-10
ABC-3/4	ABC-4	ABC-15
ABC-1	ABC-5	ABC-20
ABC-1 1/2	ABC-6	ABC-25
ABC-2	ABC-7	ABC-30



GBB-V (axial leads)

GBB

Specifications

Description: Very fast-acting fuse.

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

Construction: Ceramic cartridge with nickel-plated brass endcaps.

Ratings:

Volts — 250Vac/125Vdc
Amps — 1-30A
IR — 200A @ 250Vac
— 200A (20-30A @ 125Vac/dc)
— 10,000A (1A -15A @ 125Vac/dc)

Agency Information:

CE, Std. 248-14, UL Recognized, 1-30,125Vdc/250Vac, File E56412, Guide JFHR2, CSA Certified, 1-10, 125Vdc/250Vac, File 53787, Class 1422-01.

Features and Benefits

- Very fast-acting performance allows protection of highly sensitive electronic circuitry.

Typical Applications

- Electronic Circuits

Catalog Numbers (Amps)

With Axial Leads

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

Without Axial Leads

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



1/4" Dia. x 1 1/4" length time-delay ferrule fuses

MDL-V (axial leads)

MDL

Specifications

Description: 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 (1/6-8A)
- 32Vac (9-30A)
- Amps — 1/6-30A
- IR* — 35A (1/6-1A @ 250Vac)
- 100A (1 1/4-3A @ 250Vac)
- 200A (4-8A @ 250Vac)
- 10000A (1/6-8A @ 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, 1/6-8A; CSA Certification Class 1422-01, 1/6-8A; 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-1/10-R	MDL-V-1-R	MDL-V-7-R
MDL-V-1/100-R	MDL-V-1 1/4-R	MDL-V-8-R
MDL-V-1/6-R	MDL-V-1 1/2-R	MDL-V-9-R
MDL-V-3/10-R	MDL-V-2-R	MDL-V-10-R
MDL-V-3/100-R	MDL-V-2 1/4-R	MDL-V-12-R
MDL-V-1/4-R	MDL-V-2 1/2-R	MDL-V-15-R
MDL-V-3/10-R	MDL-V-3-R	MDL-V-20-R
MDL-V-3/100-R	MDL-V-4-R	MDL-V-25*
MDL-V-1/2-R	MDL-V-5-R	MDL-V-30*
MDL-V-3/4-R	MDL-V-6-R	

Without Axial Leads

MDL-1/10-R	MDL-1-R	MDL-7-R
MDL-1/100-R	MDL-1 1/4-R	MDL-8-R
MDL-1/6-R	MDL-1 1/2-R	MDL-9-R
MDL-3/10-R	MDL-2-R	MDL-10-R
MDL-3/100-R	MDL-2 1/4-R	MDL-12-R
MDL-1/4-R	MDL-2 1/2-R	MDL-15-R
MDL-3/10-R	MDL-3-R	MDL-20-R
MDL-3/100-R	MDL-4-R	MDL-25*
MDL-1/2-R	MDL-5-R	MDL-30*
MDL-3/4-R	MDL-6-R	

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

Data Sheet:2004

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)
- 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, 1/6-7A CSA Certification, File 47233, Class 1422-01, 1/6-7A, 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-1/10	MDQ-V-1 1/2	MDQ-V-5
MDQ-V-1/50	MDQ-V-3/10	MDQ-V-1 3/4	MDQ-V-6
MDQ-V-1/6	MDQ-V-1/2	MDQ-V-1 3/8	MDQ-V-6 1/4
MDQ-V-3/10	MDQ-V-1/4	MDQ-V-2	MDQ-V-7
MDQ-V-3/100	MDQ-V-3/10	MDQ-V-2 1/4	MDQ-V-7 1/2
MDQ-V-1 1/100	MDQ-V-3/4	MDQ-V-2 1/2	MDQ-V-8
MDQ-V-1 1/500	MDQ-V-1/2	MDQ-V-2 3/4	MDQ-V-9
MDQ-V-3/6	MDQ-V-1	MDQ-V-3	MDQ-V-10
MDQ-V-3/10	MDQ-V-1 1/10	MDQ-V-3 3/10	MDQ-V-12
MDQ-V-1/4	MDQ-V-1 1/4	MDQ-V-4	MDQ-15

Without Axial Leads

MDQ-1/100	MDQ-3/10	MDQ-1 1/2	MDQ-5
MDQ-1/50	MDQ-3/6	MDQ-1 3/4	MDQ-6
MDQ-1/6	MDQ-1/2	MDQ-1 3/8	MDQ-6 1/4
MDQ-3/10	MDQ-1/4	MDQ-2	MDQ-7
MDQ-3/100	MDQ-3/10	MDQ-2 1/4	MDQ-7 1/2
MDQ-1 1/100	MDQ-3/4	MDQ-2 1/2	MDQ-8
MDQ-1 1/500	MDQ-1/2	MDQ-2 3/4	MDQ-9
MDQ-3/6	MDQ-1	MDQ-3	MDQ-10
MDQ-3/10	MDQ-1 1/10	MDQ-3 3/10	MDQ-12
MDQ-1/4	MDQ-1 1/4	MDQ-4	MDQ-15

Data Sheet: 2044

MDA-V (axial leads)

MDA

Specifications

Description: Time-delay fuse.

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

Construction: Ceramic tube with nickel-plated brass endcaps.

Ratings:

- Volts — 250Vac (or less)
- 125Vdc (20A- 30A)
- Amps — 1/10-30A
- IR** — 35A (1/10-1A @ 250Vac)
- 100A (2 1/2-3A @ 250Vac)
- 200A (4-10A @ 250Vac)
- 1500A (15-30A @ 250Vac)
- 10,000A (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, 0-15A CSA Certification, Class 1422-01, File 53787, 0-15A.

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

Without Axial Leads

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

Data Sheet: 2002

Electronic Fuses

PC board mount fuse holders

HTC-45M



PCB Vertical Mount

Specifications

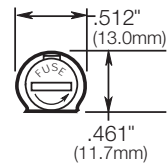
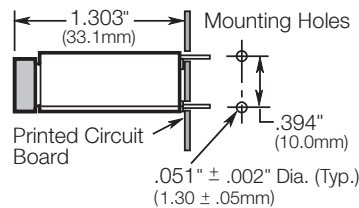
Description: PCB vertical mount bayonet cap and fuse holder.

Dimensions: See Dimensions illustration.

Ratings:

See Specifications table.

Dimensions



Data Sheet 2110

HTC-50M



PCB Horizontal Mount

Specifications

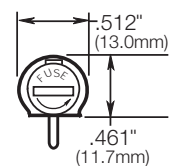
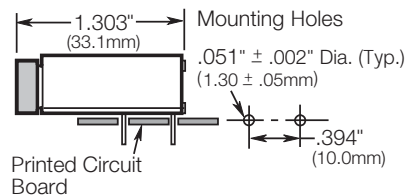
Description: PCB horizontal mount bayonet cap and fuse holder.

Dimensions: See Dimensions illustration.

Ratings:

See Specifications table.

Dimensions



Data Sheet 2110

HTC-60M, HTC-65M



PCB Stand-Off Mount

Specifications

Description: Two-leg (HTC-60M) and four-leg (HTC-65M) PCB stand-off fuse holder.

Dimensions: See Dimensions illustration.

Construction: Valox DR48 body material, phosphor bronze terminals.

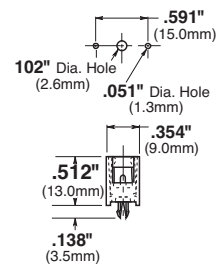
Ratings:

Volts: — 250V

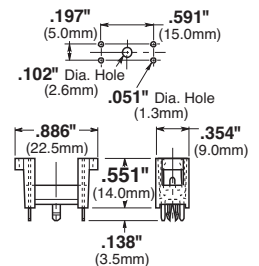
Amps: — 6.3A

Dimensions

HTC-60M
(2-leg)



HTC-65M
(4-Leg)



Data Sheet 2110

Specifications

Volts: 250V

Amps: 6.3A

Terminals: For HTC-45M, HTC-50M Tin-plated.

Molded Materials: High temperature thermoplastic that meets the flammability ratings of UL 94V0; Glow Wire Test: 960°C per IEC 60695-2-1.

Solderability: In accordance with IEC 68-2-20.

Electrical: Contact Resistance: ≤ 10mΩ; Insulation Resistance: ≥ 10mΩ; Dielectric Strength ≥ 2000 Vac.

Shock Safety: PC2 (fuse holders).

Agency Information: CE, HTC-45M, HTC-50M UL Recognized, (Guide IZLT2, File E14853; 6.3A, 250V; CSA Certified, (Class 6225-01, File 47235; 6.3A, 250V) SEMKO: (9226032; 6.3A, 250V).

Packaging: Standard Qty 10 (No Prefix), Bulk Qty 100 (Prefix Catalog Number with BK/).

PC board mount fuse holders

Electronic Fuses

HBH-I (for ¼" x 1¼" fuses)

HBH-M (for 5 x 20mm fuses)

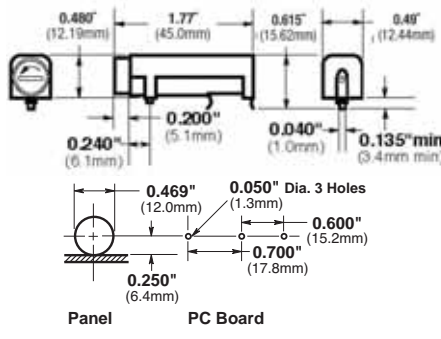
PCB Horizontal Mount

Specifications
Description: PCB horizontal mount fuse holder.

Dimensions: See Dimensions illustration.

Ratings:
 See Specifications table.

Dimensions



Data Sheet: 2118

HBV-I (for ¼" x 1¼" fuses)

HBV-M (for 5 x 20mm fuses)

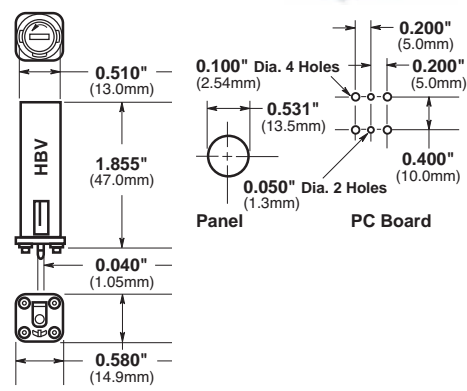
PCB Vertical Mount with Stability Pins

Specifications
Description: PCB vertical mount fuse holder with stability pins.

Dimensions: See Dimensions illustration.

Ratings:
 See Specifications table.

Dimensions



Data Sheet: 2118

HBW-I (for ¼" x 1¼" fuses)

HBW-M (for 5 x 20mm fuses)

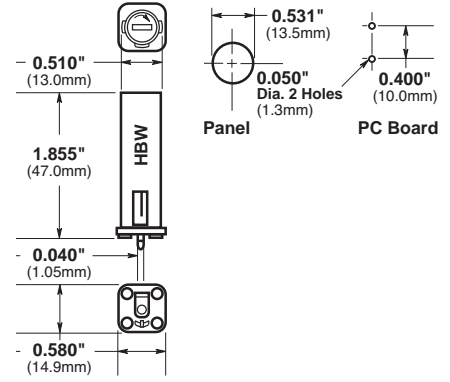
PCB Vertical Mount without Stability Pins

Specifications
Description: PCB vertical mount fuse holder without stability pins.

Dimensions: See Dimensions illustration.

Ratings:
 See Specifications table.

Dimensions



Data Sheet: 2118



FBI



FBM

Fuse Holder Caps (Fit all three shown above)

Specifications

Electrical Ratings: UL — 16A @ 250V; CSA — 12A @ 250V; VDE — 6.3A @ 250V; SEMKO — 10A @ 250V
 Insulation resistance — 10,000 megohm at 500Vdc. Contact resistance — less than 0.005 ohms @ 200mV. Dielectric strength — over 200V/mil.

Molded Material: High dielectric molded phenolic with a UL 94V0 flammability rating.

Fuse Carrier & Knob: Spring-loaded, bayonet-type. Tin plated brass. Screwdriver slotted.

Mounting: "Kicked" terminals (all models) and stabilizer pins on HBV & HBW models for increased stability.

Temperature Rating (RTI): Body: 150°C, Knob: 130°C

Agency Information: CE, UL Recognized — Guide IZLT2, File EI4853;
 CSA Certified — Class 6225-01, File 47235
 VDE — 4009241 (HBV, HBW)
 SEMKO — 800444

PC board fuseclips for 5mm diameter fuses

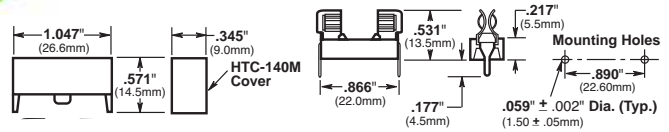
HTC-15M, HTC-140M

PCB Mounted Fuse Holder & Snap-On Cover

Voltage Rating: 250V, 6.3A, 1.6W

HTC-15M (fuse holder), HTC-140M (natural cover),
HTC-150M* (transparent cover)

*Available in bulk only. Use this format: BK/HTC-150M
Data Sheet: 2110



HTC-200M

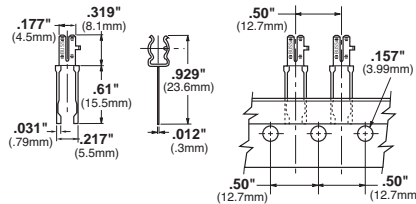
PCB Mounted Fuseclip

Construction: Tin-plated bronze

Tape and Fan Fold packed

Ammo Pack (AP/HTC-200M) 1000 pieces per box

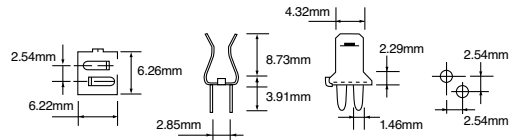
Data Sheet: 2110



HTC-210M

PCB Mounted Fuseclip with End Stops

Data Sheet: 2110



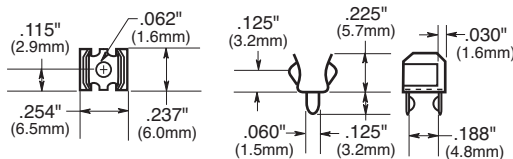
1A3399 Series

PCB Fuseclips with End Stops & Straight Leads

Catalog Numbers	Clip Material*	Finish
1A3399-01	Beryllium copper*	Silver
1A3399-04	Beryllium copper*	Bright tin
1A3399-10	Spring bronze	Bright tin

*Beryllium copper recommended for amps higher than 15 amps (1/2" clips).

Data Sheet: 2131



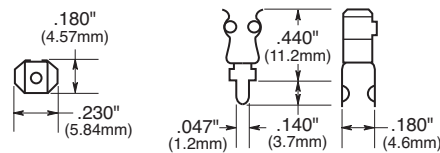
1A5018 Series

PCB High Profile Fuseclips with End Stops & Straight Leads

Catalog Numbers	Clip Material*	Finish
1A5018-7	Spring bronze	Silver
1A5018-10	Spring bronze	Bright tin

*Beryllium copper recommended for amps higher than 15 amps (1/2" clips).

Data Sheet: 2131

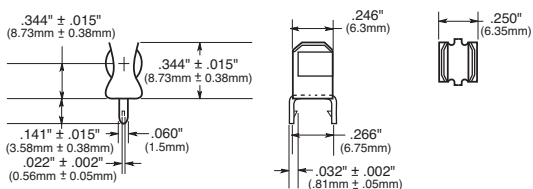


1A5601 Series

PCB Fuseclips (0-7A)

Catalog Number	Clip Material	Finish
1A5601	Cartridge brass	Bright tin

Data Sheet: 2131

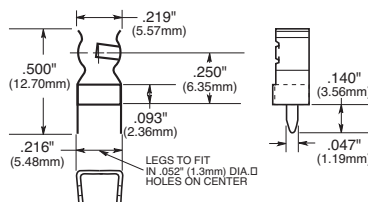


1A5602 Series

PCB Fuseclips (0-7A)

Catalog Number	Clip Material	Finish
1A5602	Cartridge brass	Bright tin

Data Sheet: 2131



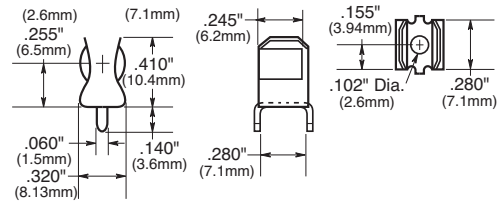
PC board fuseclips for 1/4" diameter fuses

1A3398 Series

PCB Fuseclips without End Stops or Straight Leads

Catalog Numbers	Clip Material	Finish
1A3398-07	Cartridge brass	Bright tin
1A3398-08	Spring bronze	Bright tin

Data Sheet: 2131



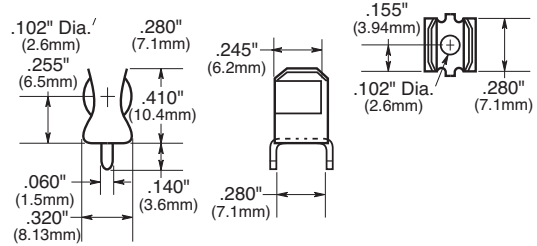
1A1907 Series

PCB Fuseclips with End Stops & Straight Leads

Catalog Numbers	Clip Material*	Finish
1A1907-02	Cartridge brass	None/bright dipped
1A1907-03	Beryllium copper*	Bright tin
1A1907-05	Beryllium copper*	Silver
1A1907-06	Cartridge brass	Bright tin
1A1907-08	Spring bronze	None/bright dipped
1A1907-09	Spring bronze	Bright tin

*Beryllium copper recommended for amps higher than 15A (1/2" clips).

Data Sheet: 2131



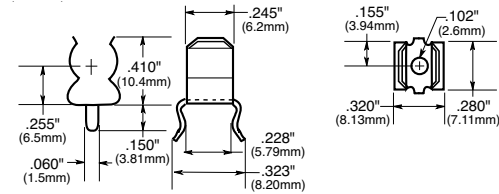
1A4533 Series

PCB Fuseclips without End Stops or Angled Out Leads

Catalog Numbers	Clip Material*	Finish
1A4533-01	Beryllium copper*	Bright tin
1A4533-06	Cartridge brass	Bright tin
1A4533-07	Spring bronze	Bright tin

*Beryllium copper recommended for amps higher than 15A (1/2" clips).

Data Sheet: 2131



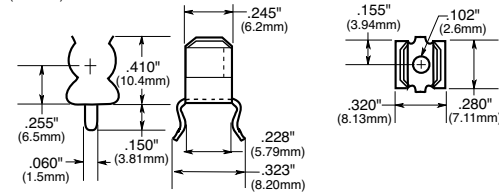
1A4534 Series

PCB Fuseclips with End Stops & Angled Out Leads

Catalog Numbers	Clip Material*	Finish
1A4534-01	Beryllium copper*	Bright tin
1A4534-06	Cartridge brass	Bright tin
1A4534-07	Spring bronze	Bright tin

*Beryllium copper recommended for amps higher than 15A (1/2" clips).

Data Sheet: 2131



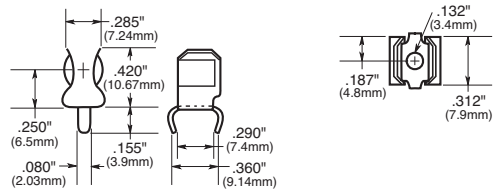
1A1119 Series

Fuseclips with End Stops & Angled In Leads

Catalog Numbers	Clip Material*	Finish
1A1119-04	Beryllium copper*	Bright tin
1A1119-05	Beryllium copper*	Silver
1A1119-10	Cartridge brass	Bright tin
1A1119-13	Spring bronze	Bright tin

*Beryllium copper recommended for amps higher than 15A (1/2" clips).

Data Sheet: 2131



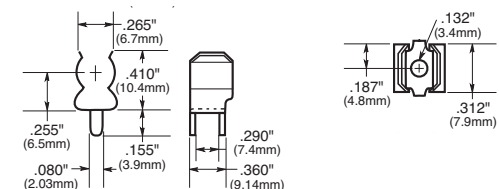
1A1120 Series

PCB Fuseclips without End Stops or Angled In Leads

Catalog Numbers	Clip Material*	Finish
1A1120-02	Cartridge brass	None/bright dipped
1A1120-05	Beryllium copper*	Silver
1A1120-06	Beryllium copper*	Bright tin
1A1120-09	Cartridge brass	Bright tin
1A1120-11	Spring bronze	None/bright dipped
1A1120-12	Spring bronze	Bright tin

*Beryllium copper recommended for amps higher than 15A (1/2" clips).

Data Sheet: 2131



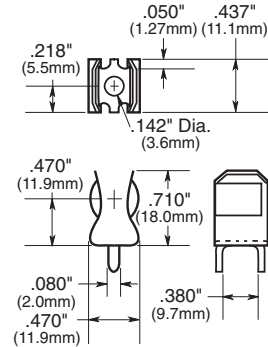
PC Board fuseclips for $1\frac{3}{32}$ " diameter and ATC® fuses

1A3400 Series

PCB Fuseclips for $1\frac{3}{32}$ " diameter fuses with End Stops & Straight Leads

Catalog Number	Amp Rating	Clip Material	Finish
1A3400-09	20A Max.	Spring bronze	Bright tin

Data Sheet 2131

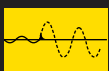
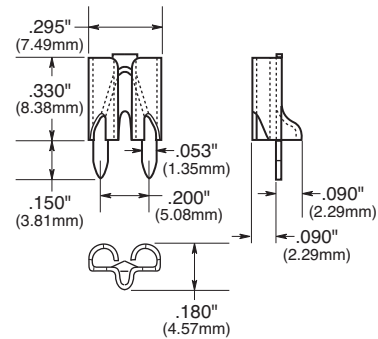


1A5600 Series

PCB Fuseclips for ATC® Fuses (0-20A)

Catalog Number	Clip Material	Finish
1A5600	Brass	Satin finish tin

Data Sheet 2131



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PC Board fuseclips for 1/4", 3/32", 13/32" and 9/16" diameter fuses

5681 & 5682 Series

PCB Fuseclips with Mounting Holes For 1/4" Diameter Fuses

Catalog Number	End Stop	Clip Mat. **	Finish	Dimensions (Inches)					Hole Dia.	Fig. Ref.
				B (To End Stop)	C (Contact)	D (Height)	E (Width)			
5681-01	No	BeCu	Silver	†	0.265	0.41	0.32	0.132	2	
5681-08		Spg. Br.	Nickel							
5681-15		Spg. Br.	Bright Tin							
5682-01	Yes	BeCu	Silver	0.108	0.262	0.41	0.32	0.132	1	
5682-02		BeCu	Silver							
5682-11		BeCu	Bright Tin	0.131						
5682-41		Spg. Br.	Bright Tin	0.106						
5682-44		Spg. Br.	Bright Tin	0.132						

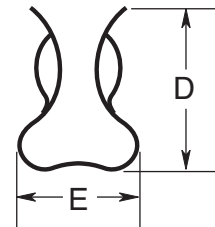
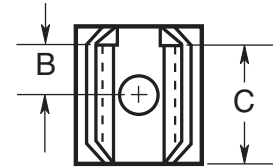


Figure 1

5672 & 5674 Series

PCB Fuseclips with Mounting Holes For 3/32" Diameter Fuses

Catalog Number	End Stop	Clip Mat. **	Finish	Dimensions (Inches)					Hole Dia.	Fig. Ref.
				B (To End Stop)	C (Contact)	D (Height)	E (Width)			
5672-11	No	Spg. Br.	Bright Tin	†	0.362	0.52	0.38	0.172	2	
5674-01	Yes	BeCu	Silver	0.168	0.356	0.52	0.38	0.172	1	
5674-10		BeCu	Bright Tin							
5674-41		Spg. Br.	Bright Tin							

5956 & 5960 Series

PCB Fuseclips with Mounting Holes For 13/32" Diameter Fuses

Catalog Number	End Stop	Clip Mat. **	Finish	Dimensions (Inches)					Hole Dia.	Fig. Ref.
				B (To End Stop)	C (Contact)	D (Height)	E (Width)			
5956-16	No	Spg. Br.	Bright Tin	†	0.312	0.71	0.47	0.172	2	
5960-07	Yes	BeCu	Silver	0.168	0.387	0.71	0.47	0.196	1	
5960-09		BeCu	Silver	0.20				0.172		
5960-44		Spg. Br.	Nickel	0.20				0.197		
5960-51		Spg. Br.	Bright Dip*	0.168				0.196		
5960-53		Spg. Br.	Bright Dip*	0.20				0.172		
5960-61		Spg. Br.	Bright Tin	0.168				0.196		
5960-62		Spg. Br.	Bright Tin	0.168				0.132		
5960-63		Spg. Br.	Bright Tin	0.20				0.172		
5960-64		Spr. Br.	Bright Tin	0.20				0.128		

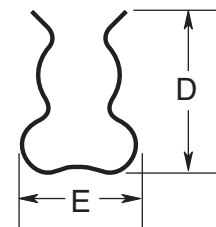
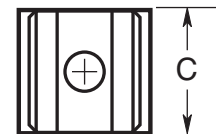


Figure 2

5591 & 5592 Series

PCB Fuseclips with Mounting Holes For 9/16" Diameter Fuses

Catalog Number	End Stop	Clip Mat. **	Finish	Dimensions (Inches)					Hole Dia.	Fig. Ref.
				B (To End Stop)	C (Contact)	D (Height)	E (Width)			
5591-42	Yes	Spg. Br.	Bright Dip*	0.26	0.51	0.89	0.60	0.20	1	
5591-52		Spg. Br.	Bright Tin					0.172		
5592-01	No	BeCu	Silver	0.252	0.56	0.875	0.60	0.20	2	
5592-11		Spg. Br.	Silver					0.20		
5592-33		Spg. Br.	Bright Dip					0.172		

* Bright Dip is actually treated bare metal with no plating.
 ** Spg. Br. — Spring Bronze; BeCu — Beryllium Copper.
 † Hole in center of both clip and contact area.

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