

Midget, Miniature & PC Mount Fuses

Maximum Protection.

Minimum Space.



Your problem: As different as their job descriptions are on paper — today's maintenance crews, specifying engineers, and OEM designers have one thing in common: They're all working with smaller electrical system components. Be it motor starters, transformers, or circuit-control equipment. So, where do you turn for small dimension fuses without a reduction in protective capacity?

Our solution: Our international range of midget and miniature dimension and new PC mount fuses offers you all the protection you require. A wide range of ratings. Special characteristics like time-delay and low I^2t . All within a footprint of 1-1/2" x 13/32" or less.

Want more information fast? For more technical or application-specific information, please call our Midget and Miniature Dimension fuse experts, at 978-462-6662; 416-252-9371 in Canada; or visit our website at ep.mersen.com.

C Midget, Miniature & PC Mount Fuses

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ATQ Time-Delay Midget Fuses

Amp-Trap® ATQ midget time-delay fuses are rated a full 500 volts AC with 42 ampere ratings from 1/10 to 30A. They are an excellent choice for supplemental protection of circuits up to 30A where the available short circuit current does not exceed 10,000A. (Not for Branch Circuit Protection).

Features/Benefits:

- Numerous ratings for a wide variety of applications up to 500VAC
- Time-delay (12 seconds at 200% rating) for circuits with high inrush current
- Can be used with UltraSafe™ Fuse holders
- 1 1/2" x 13/32" (10mm x 38mm) dimensions

Highlights:

- Time-delay

Applications:

- Supplemental protection of lighting, solenoid, motor and transformer circuits

Catalog Numbers (amps)

ATQ1/10	ATQ3/10	ATQ1-1/8	ATQ2	ATQ3-2/10	ATQ6	ATQ12
ATQ1/8	ATQ4/10	ATQ1-1/4	ATQ2-1/8	ATQ3-1/2	ATQ6-1/4	ATQ14
ATQ15/100	ATQ1/2	ATQ1-4/10	ATQ2-1/4	ATQ4	ATQ7	ATQ15
ATQ3/16	ATQ6/10	ATQ1-1/2	ATQ2-1/2	ATQ4-1/2	ATQ8	ATQ20
ATQ2/10	ATQ8/10	ATQ1-6/10	ATQ2-8/10	ATQ5	ATQ9	ATQ25
ATQ1/4	ATQ1	ATQ1-8/10	ATQ3	ATQ5-6/10	ATQ10	ATQ30

Recommended Fuse Blocks for Midget (10x38mm) Fuses

Number of Poles	UltraSafe™ Indicating Fuse Holder	Catalog Number		
		Screw Connector	Pressure Plate Connector	Copper Box Connector
Adder		30310	30320	30350
1	USM1I	30311	30321	30351
2	USM2I	30312	30322	30352
3	USM3I	30313	30323	30353
3	USFM10I			



Ratings:

Volts : 500VAC
 Amps : 1/10 to 30A
 I.R. : 10kA I.R.

Approvals:

- UL listed to standard 248-14 File E33925
- CSA Certified to Standard C22.2 No. 248.14



ATM Fast-Acting Midget Fuses

Amp-Trap® midget fast-acting ATM fuses are rated 600 volts AC and DC, with a 100kA interrupting rating. These ratings give the ATM a wide range of applications not covered by other midget fuses. In addition, ratings of 30/35, 30/40 and 30/50 amperes are offered for specific applications such as capacitor protection. These ATM fuses must still be considered 30A fuses because of their dimensions, but are able to withstand much higher inrush currents and tougher duty cycles. (Not for Branch Circuit Protection).

Features/Benefits:

- For supplemental protection of small motors and transformers
- Extended ratings for special protection of capacitors and circuits with high inrush currents
- 600VDC ratings for a wide variety of applications including photovoltaic and solar applications.
- Can be used with UltraSafe™ fuse holders
- 1 1/2" x 13/32" (10mm x 38mm) dimensions

Highlights:

- Fast-acting
- Special Ratings (Above 30A)

Applications:

- Supplemental protection of circuits up to 600VAC and 600VDC with 100kA I.R.

Catalog Numbers (amps)

ATM1/10	ATM6
ATM1/8	ATM7
ATM2/10	ATM8
ATM1/4	ATM10
ATM1/2	ATM12
ATM3/4	ATM15
ATM1	ATM20
ATM1-1/2	ATM25
ATM2	ATM30
ATM3	ATM30/35*
ATM4	ATM30/40*
ATM5	ATM30/50*

* are not continuous current rated devices

Recommended Fuse Blocks for Midget (10x38mm) Fuses

Number of Poles	UltraSafe™ Indicating Fuse Holder	Catalog Number		
		Screw Connector	Pressure Plate Connector	Copper Box Connector
Adder		30310	30320	30350
1	USM1I	30311	30321	30351
2	USM2I	30312	30322	30352
3	USM3I	30313	30323	30353
3	USFM10I			



Ratings:

Volts	: 600VAC / DC
Amps	: 1/10 to 30A : (35 to 50A AC only)
I.R.	: 100kA I.R. : 10kA I.R. AC (35 to 50A)

Approvals:

- UL listed to standard 248-14 (1/10 to 30A) File E33925
- DC Listed to UL Standard 248-14 (1/10 to 30A)
- CSA Certified to Standard C22.2 No. 248.14 (1/10 to 30A)



TRM Time-Delay Midget Fuses

Tri-Onic® TRM time-delay midget fuses are rated 250 volts AC and are offered in ampere ratings from 1/10 to 30A. They have 12 seconds time-delay at 200% rating to provide supplemental protection of small motors, small transformers and other high inrush loads, plus many other 250 volt applications. (Not for Branch Circuit Protection).

Features/Benefits:

- Numerous ratings for a wide variety of applications
- 250VAC rating in all sizes up to 30A
- Time-delay for circuits with high inrush current
- Can be used with UltraSafe™ fuse holders
- 1 1/2" x 13/32" (10mm x 38mm) dimensions

Highlights:

- Time-delay

Applications:

- Small motors
- Small transformers
- Lighting circuits
- Control circuits

Catalog Numbers (amps)

TRM1/10	TRM6/10	TRM1-6/10	TRM3	TRM5-6/10	TRM10
TRM15/100	TRM8/10	TRM1-8/10	TRM3-2/10	TRM6	TRM12
TRM2/10	TRM1	TRM2	TRM3-1/2	TRM6-1/4	TRM15
TRM1/4	TRM1-1/8	TRM2-1/4	TRM4	TRM7	TRM20
TRM3/10	TRM1-1/4	TRM2-1/2	TRM4-1/2	TRM8	TRM25
TRM4/10	TRM1-4/10	TRM2-8/10	TRM5	TRM9	TRM30
TRM1/2					

Recommended Fuse Blocks for Midget (10x38mm) Fuses

Number of Poles	UltraSafe™ Indicating Fuse Holder	Catalog Number		
		Screw Connector	Pressure Plate Connector	Copper Box Connector
Adder		30310	30320	30350
1	USM1I	30311	30321	30351
2	USM2I	30312	30322	30352
3	USM3I	30313	30323	30353
3	USFM10I			



Ratings:

Volts : 250VAC
Amps : 1/10 to 30A
I.R. : 10kA I.R.

Approvals:

- UL listed to standard 248-14 File E33925
- CSA Certified to Standard C22.2 No. 248.14



OTM Fast-Acting Midget Fuses

One-time OTM midget fuses provide low-cost protection for 250 volt AC general purpose lighting, heating, control circuits, etc. where time-delay is not required. (Not for Branch Circuit Protection).

Features/Benefits:

- Low cost and fully rated for economy without compromise
- Can be used with UltraSafe™ fuse holders
- 1 1/2" x 13/32" (10mm x 38mm) dimensions

Highlights:

- Fast-acting

Applications:

- Supplemental protection of circuits up to 250VAC and 10kA

Catalog Numbers (amps)

OTM1
OTM2
OTM3
OTM4
OTM5
OTM6
OTM8
OTM10
OTM15
OTM20
OTM25
OTM30

Recommended Fuse Blocks for Midget (10x38mm) Fuses

Number of Poles	UltraSafe™ Indicating Fuse Holder	Catalog Number		
		Screw Connector	Pressure Plate Connector	Copper Box Connector
Adder		30310	30320	30350
1	USM1I	30311	30321	30351
2	USM2I	30312	30322	30352
3	USM3I	30313	30323	30353
3	USFM10I			



Ratings:

Volts : 250VAC
Amps : 1 to 30A
I.R. : 10kA I.R.

Approvals:

- UL Listed to standard 248-14 File E33925
- CSA Certified to Standard C22.2 No. 248.14



DCT Special Purpose Midget Fuses

Mersen DCT fuses were developed to meet requirements coming from new applications such as protection of photovoltaic cells, multi meters and compact on board traction equipment for auxiliary circuits. This high performance DC fuse in its compact size offers multiple competitive advantages particularly for international applications where DC voltage requirements are above 600V DC.

Features/Benefits:

- Low minimum breaking capacity (MBC)
- Compact size: 10 x 38 mm (13/32" x 1-1/2") size internationally accepted.
- Ferrule mount 1 to 30A for design versatility
- Can be used with UltraSafe™ fuse holders USM series
- 1 1/2" x 13/32" (10mm x 38mm) dimensions

Highlights:

- 750VAC / 1000VDC
- DC : L/R = 1mS

Applications:

- DC traction equipment
- Multi-meters
- Photovoltaic systems
- Semiconductor protection

Catalog Numbers, I²t (at 50,000 Amps –1000VDC L/R = 1ms)

Catalog Number	Clearing I ² t(A ² s)	Watts Loss @ 80% Rating (W)	Watts Loss @ 100% Rating (W)
DCT1-2	-	0.2	0.32
DCT2-2	-	0.27	0.43
DCT3-2	-	0.9	1.4
DCT4-2	-	0.8	1.3
DCT5-2	-	0.9	1.4
DCT6-2	-	1.0	1.5
DCT7-2	-	1.1	1.5
DCT8-2	83	0.7	1.1
DCT10-2	127	0.9	1.5
DCT12-2	215	1.3	2.0
DCT15-2	495	1.9	3.0
DCT20-2	755	2.6	4.4
DCT25-2	970	2.9	5.3
DCT30-2	1650	3.0	5.8

Recommended Fuse Blocks for Midget (10x38mm) Fuses

Number of Poles	Catalog Number			
	UltraSafe™ Fuse Holder	Screw Connector	Pressure Plate Connector	Copper Box Connector
Adder		30310	30320	30350
1	USM1	30311	30321	30351
2	USM2	30312	30322	30352
3	USM3	30313	30323	30353



Ratings:

Volts	: 750VAC
	: 1000VDC
Amps	: 1 to 30A
I.R.	: 100kA I.R. AC
	: 50kA I.R. DC
MBC	: 2.0 x I _n (AC)
	: 1.3 x I _n (DC : 1 - 7A)
	: 2.0 x I _n (DC : 8 - 30A)
L/R	: 1mS

Approvals:

- UL Recognized component File E60314



FSM Multi-Meter Fuse

Mersen has developed a true 1000V AC/DC fuse designed to protect both analog and digital multi-meters. These fuses cover all the industry's multi-meter requirements in three easy to use amperage ratings. Good for 1000V AC and DC, the FSM line of Mersen fuses are designed for the power electronics metering and controls market.

Features/Benefits:

- For the protection of multi-meters
- 1000V AC/DC for full range protection
- 100% Current rated for continuous current with L/R = 10mS carrying capability
- Glass melamine body and plated terminals provide superior reliability and performance

Highlights:

- Fast-acting
- Current-limiting

Applications

- Multi-meters

Catalog Numbers (amps)

FSM44/100

FSM11

FSM15

Cross Reference

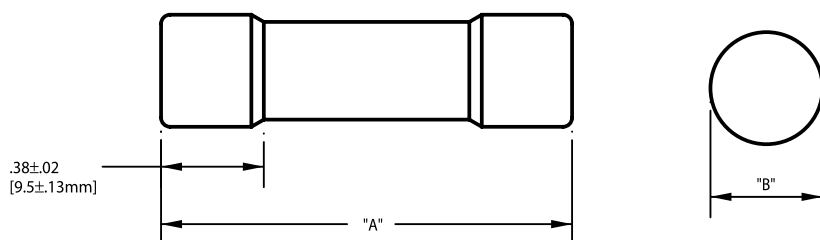
Mersen FSM replaces the

Bussmann: DMM-B

Littelfuse: FLU

Dimensions

Catalog No.	A	B
FSM44/100	1.375"	0.406"
FSM11	1.500"	0.406"
FSM15	1.500"	0.406"



Ratings:

Volts : 1000VAC / DC

Amps : 44/100A, 11A, 15A

I.R. : 20kA I.R.

Approvals:

- UL Recognized component File E60314



GGU Fast-Acting Midget Fuses

125 volt AC rated GGU fuses have midget fuse dimensions (1-1/2" long x 13/32" diameter). 20A-30A ratings have ceramic bodies, allowing use in higher ambient temperature conditions than other similar fuses. (Not for Branch Circuit Protection).

Features/Benefits:

- Glass body on 1-15A makes status of fusible element clearly visible
- Ceramic body on 20-30A allows use in higher temperature applications
- Medium lag for protection of circuits up to 30A and 125VAC
- Can be used with UltraSafe™ fuse holders (1-30A)
- 1 1/2" x 13/32" (10mm x 38mm) dimensions

Highlights:

- Fast-acting

Catalog Numbers (amps)

GGU1
GGU2
GGU3
GGU4
GGU5
GGU8
GGU10
GGU20
GGU30

Recommended Fuse Blocks for Midget (10x38mm) Fuses

Number of Poles	UltraSafe™ Indicating Fuse Holder	Catalog Number		
		Screw Connector	Pressure Plate Connector	Copper Box Connector
Adder		30310	30320	30350
1	USM1I	30311	30321	30351
2	USM2I	30312	30322	30352
3	USM3I	30313	30323	30353
3	USFM10I			



Ratings:

Volts : 125VAC
Amps : 1 to 30A
I.R. : 10kA I.R.

Approvals:

- UL Listed 1-15A
- UL Recognized 20-30A



GFN Time-Delay Midget Fuses

GFN midget indicating fuses are available in ratings from 1/10 through 30A. These time-delay fuses have built-in blown fuse indicators which pop out at the end of the fuse to visually indicate when the fuse has operated to open the circuit. Indicators may be used to trip a switch for remote as well as visual annunciation.

(Not for Branch Circuit Protection).

Features/Benefits:

- Pin indicator provides visual indication of open fuse or actuates switch for remote signaling
- Numerous ratings for a wide variety of applications
- 12 second time-delay at 200% rating
- Can be used with UltraSafe™ fuse holders (1/10 - 10A)
- 1 1/2" x 13/32" (10mm x 38mm) dimensions

Highlights:

- Pin indicator
- Time-delay
- 12-30A double body

Applications:

- For supplemental protection of circuits where time-delay and blown fuse indication are required, such as solenoid circuits or control circuits.

Catalog Numbers (amps)

GFN1/10	GFN1	GFN2-1/2	GFN6-1/4
GFN1/8	GFN1-1/8	GFN2-8/10	GFN7
GFN15/100	GFN1-1/4	GFN3	GFN8
GFN2/10	GFN1-4/10	GFN3-2/10	GFN10
GFN1/4	GFN1-1/2	GFN3-1/2	GFN12*
GFN3/10	GFN1-6/10	GFN4	GFN15*
GFN4/10	GFN1-8/10	GFN4-1/2	GFN20*
GFN1/2	GFN2	GFN5	GFN25*
GFN6/10	GFN2-1/4	GFN5-6/10	GFN30*
GFN8/10		GFN6	

*Note: 12-30A is a double barrel fuse construction

Recommended Fuse Blocks for Midget (10x38mm) Fuses

Number of Poles	UltraSafe™ Indicating Fuse Holder	Catalog Number		
		Screw Connector	Pressure Plate Connector	Copper Box Connector
Adder		30310	30320	30350
1	USM1I	30311	30321	30351
2	USM2I	30312	30322	30352
3	USM3I	30313	30323	30353
3	USFM10I			



Ratings:

Volts	: 250VAC (0.1 - 10A)
	: 125VAC (12 - 15A)
	: 32VAC (20 - 30A)
Amps	: 1/10 to 30A
I.R.	: 200kA I.R., 250VAC, 0.1-10A
	: 10kA I.R., 125VAC, 0.1-15A
	: 10kA I.R., 32VAC, 20-30A

Approvals:

- UL Listed to standard 248-14 (1/10 to 15A) File E33925
- CSA Certified to Standard C22.2 No. 248.14 (1/10 to 15A)



SBS Fast-Acting Ferrule Fuses

Unique dimensions for today's smaller equipment and components. Fast-acting general purpose fuse developed in response to the industry's demand for smaller equipment and components. The only fuse in their size with a full 600 VAC rating for all ampere ratings by UL standard 248-14 and CSA No. 59.2, and are the only fuses of this size with an interrupting rating of 100kA RMS. SBS fuses are 1-3/8" long, smaller by 1/8" than most standard midget fuses and are available in 22 ampere ratings, from 2/10A to 30A. (Not for Branch Circuit Protection).

Features/Benefits:

- Small unique physical size for maximum design flexibility and non-interchangeability with other fuse classes
- Fiberglass body provides dimensional stability in harsh industrial environments
- Can be used with UltraSafe™ fuse holder
- 1 3/8" x 13/32" dimensions

Highlights:

- Fast-acting
- Unique dimensions

Applications:

- Control circuits
- Lighting ballasts
- Meter circuits
- Electronic circuits
- General purpose protection

Catalog Numbers (amps)

SBS2/10	SBS1-8/10	SBS10
SBS4/10	SBS2	SBS12
SBS1/2	SBS3	SBS15
SBS3/4	SBS4	SBS20
SBS8/10	SBS5	SBS25
SBS1	SBS6	SBS30
SBS1-1/2	SBS7	
SBS1-6/10	SBS8	

Cross Reference:

SBS will replace Bussmann BBS,
Littelfuse BLS fuses



Ratings:

Volts : 600VAC
Amps : 2/10 to 30A
I.R. : 100kA I.R.

Approvals:

- UL Listed to standard 248-14
File E33925
- CSA Certified to Standard C22.2
No. 248.14



PCF Fast-Acting PC Mount Fuses

Fast-acting fuses for direct mounting on printed circuit boards.

Mersen's PCF series of fast-acting direct-mountable fuses addresses the increasing need for electrical protection at the PC board as current and voltage requirements push higher. These fuses help printed circuit board manufacturers reduce parts by eliminating clips and fuse blocks and allowing automated assembly. PCF fuses can be used for the protection of main frame power boards, small circuit breakers with low-interrupting ratings and other critical components. PCF fuses bring greatly-increased ampere, voltage and interrupting ratings to the board itself and are UL Component Recognized.

Highlights:

- Fast-acting
- PC board mount
- Three mounting styles

Applications:

- Protection of main frame power boards, circuit breakers, components

Catalog Numbers (amps)

Slot Mount	
PCF1-R	PCF8-R
PCF2-R	PCF10-R
PCF3-R	PCF12-R
PCF4-R	PCF15-R
PCF5-R	PCF20-R
PCF6-R	PCF25-R
PCF7-R	PCF30-R
Double Hole Mount	
PCF1-H	PCF8-H
PCF2-H	PCF10-H
PCF3-H	PCF12-H
PCF4-H	PCF15-H
PCF5-H	PCF20-H
PCF6-H	PCF25-H
PCF7-H	PCF30-H
	PCF30/50-H
Surface Mount	
PCF1-S	PCF8-S
PCF2-S	PCF10-S
PCF3-S	PCF12-S
PCF4-S	PCF15-S
PCF5-S	PCF20-S
PCF6-S	PCF25-S
PCF7-S	PCF30-S

Dimensions of the PCF Series are found on page C14



Ratings:

Volts : 600VAC / DC
Amps : 1 to 30A
I.R. : 100kA I.R.
L/R : ≤10ms

Approvals:

- UL Recognized Components
File E60314



PCS Semiconductor PC Mount Fuses

Semiconductor protection fuses for direct mounting on printed circuit boards.

Mersen's PCS series of extremely fast-acting, direct-mountable fuses address the increasing need for electrical protection at the PC board as current and voltage requirements push higher. These fuses help printed circuit board manufacturers reduce parts by eliminating clips and fuse blocks and allowing automated assembly. PCS fuses are AC and DC rated and are extremely current-limiting. They will protect semiconductors, main frame boards, circuit breakers with low interrupting rating and other critical components. PCS fuses bring I²t protection, higher voltage and interrupting ratings to the board itself and are UL Component Recognized.

Highlights:

- Extremely fast-acting
- PC board mount
- Three mounting styles

Applications:

- Protection of semiconductors, circuit breakers, critical components

Catalog Numbers (amps)

Slot Mount	
PCS5-R	PCS20-R
PCS8-R	PCS25-R
PCS10-R	PCS30-R
PCS12-R	PCS35-R
PCS15-R	PCS40-R
Double Hole Mount	
PCS5-H	PCS20-H
PCS8-H	PCS25-H
PCS10-H	PCS30-H
PCS12-H	PCS35-H
PCS15-H	PCS40-H
Surface Mount	
PCS5-S	PCS20-S
PCS8-S	PCS25-S
PCS10-S	PCS30-S
PCS12-S	PCS35-S
PCS15-S	PCS40-S

Dimensions of the PCS Series are found on page C14

Watts Loss Data

Ampere Rating	Watts Loss @ 80% Rating (w)	Watts Loss @ 100% Rating (w)
5	0.5	0.7
10	0.9	1.5
15	1.9	3.0
20	2.6	4.4
25	2.9	5.3
30	3.0	5.8
35	3.3	6.4
40	3.6	7.0

I²t Data, 100kA

Ampere Rating	600VAC		600VDC L/R =10ms
	Melting I ² t (A ² s)	Clearing I ² t (A ² s)	Clearing I ² t (A ² s)
5	5	60	40
8	6.5	70	42
10	10	110	70
12	17	150	90
15	26	180	110
20	41	330	200
25	69	440	260
30	132	860	520
35	197	1300	780
40	276	1800	1100



Ratings:

Volts : 600VAC / DC
 Amps : 5 to 40A
 I.R. : 200kA I.R. AC
 : 100kA I.R. DC
 L/R : ≤10ms

Approvals:

- UL Recognized Components
 File E60314



PCT Time-Delay PC Mount Fuses

Time-delay fuses for direct mounting on printed circuit boards.

Mersen's PCT series of time-delay, direct-mountable fuses addresses the increasing need for electrical protection at the PC board as current and voltage requirements push higher. These fuses help printed circuit board manufacturers reduce parts by eliminating clips and fuse blocks and allowing automated assembly. PCT fuses can be used for the protection of main frame power boards, small circuit breakers with low interrupting ratings and other components. PCT fuses bring protection with time-delay, greatly increased ampere, voltage and interrupting ratings to the board itself and are UL Component Recognized.

Highlights:

- Time-delay
- PC board mount
- Three mounting styles

Applications:

- Protection of main frame power boards, circuit breakers, components

Catalog Numbers (amps)

Slot Mount	
PCT1-R	PCT8-R
PCT2-R	PCT10-R
PCT3-R	PCT12-R
PCT4-R	PCT15-R
PCT5-R	PCT20-R
PCT6-R	PCT25-R
PCT7-R	PCT30-R
Double Hole Mount	
PCT1-H	PCT8-H
PCT2-H	PCT10-H
PCT3-H	PCT12-H
PCT4-H	PCT15-H
PCT5-H	PCT20-H
PCT6-H	PCT25-H
PCT7-H	PCT30-H
Surface Mount	
PCT1-S	PCT8-S
PCT2-S	PCT10-S
PCT3-S	PCT12-S
PCT4-S	PCT15-S
PCT5-S	PCT20-S
PCT6-S	PCT25-S
PCT7-S	PCT30-S

Dimensions of the PCT Series are found on page C14



Ratings:

Volts : 500VAC
Amps : 1 to 30A
I.R. : 100kA I.R.

Approvals:

- UL Recognized Components
File E60314

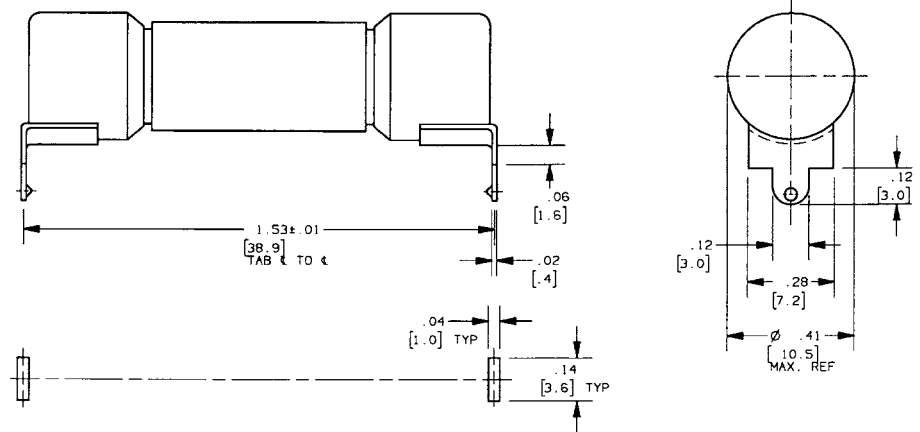


PCF/PCS/PCT Series PC Mount Fuses

Outline Dimensions

Slot Mount (Rectangular Holes)

PCF1-R thru PCF30-R
PCS5-R thru PCS40-R
PCT1-R thru PCT30-R

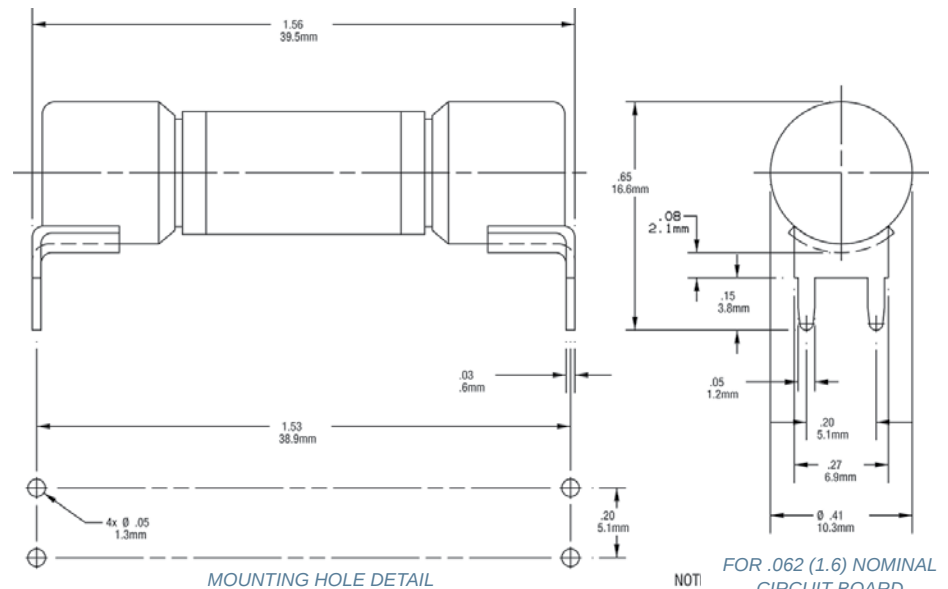


MOUNTING HOLE DETAIL

FOR .062 (1.6) NOMINAL
CIRCUIT BOARD
THICKNESS

Double Hole Mount (Round Holes)

PCF1-H thru PCF30-H
PCS5-H thru PCS40-H
PCT1-H thru PCT30-H

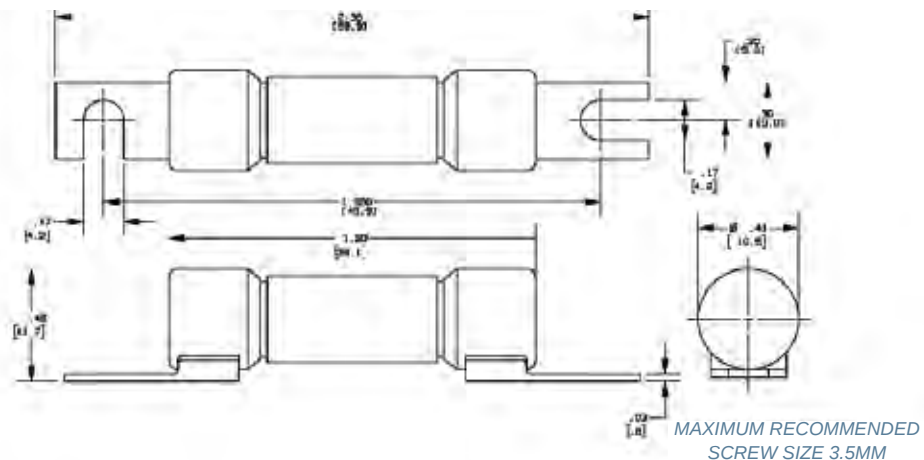


MOUNTING HOLE DETAIL

FOR .062 (1.6) NOMINAL
CIRCUIT BOARD
THICKNESS

Surface (Screw) Mount

PCF1-S thru PCF30-S
PCS5-S thru PCS40-S
PCT1-S thru PCT30-S



MAXIMUM RECOMMENDED
SCREW SIZE 3.5MM

Electronic/Glass Fuses

GSA/GSA-V

- Ceramic body
- Time-delay
- 1/4" x 1-1/4"
- 1-1/2" Axial leads optional

1/16A through 8A, 250VAC, UL Listed -
10,12,15A, 250V UL Recognized

1/16A through 8A, 250VAC, CSA Certified - 10, 12, 15A,
250V CSA Recognized 20A, 250VAC, 25 & 30A, 125VAC



GDL/GDL-V

- Glass body
- Time-delay
- 1/4" x 1-1/4"
- 1-1/2" Axial leads optional

1/16A through 8A, 250VAC, UL Listed and CSA Certified
10A through 15A, 125VAC, UL Listed and CSA Certified
20A through 30A, 32VAC, UL Listed to U.S. and
Canadian safety standards



Standard Fuse Ampere Ratings

Catalog Number	Axial Lead Cat. No	Ampere Rating	Volts	I.R.
GSA1/16	GSA-V1/16	1/16A	250V	1
GSA1/10	GSA-V1/10	1/10A	250V	1
GSA1/8	GSA-V1/8	1/8A	250V	1
GSA15/100	GSA-V15/100	15/100A	250V	1
GSA175/1000	GSA-V175/1000	175/1000A	250V	1
GSA3/16	GSA-V3/16	3/16A	250V	1
GSA2/10	GSA-V2/10	2/10A	250V	1
GSA1/4	GSA-V1/4	1/4A	250V	1
GSA3/10	GSA-V3/10	3/10A	250V	1
GSA3/8	GSA-V3/8	3/8A	250V	1
GSA4/10	GSA-V4/10	4/10A	250V	1
GSA1/2	GSA-V1/2	1/2A	250V	1
GSA6/10	GSA-V6/10	6/10A	250V	1
GSA7/10	GSA-V7/10	7/10A	250V	1
GSA3/4	GSA-V3/4	3/4A	250V	1
GSA8/10	GSA-V8/10	8/10A	250V	1
GSA1	GSA-V1	1A	250V	1
GSA1-1/4	GSA-V1-1/4	1-1/4A	250V	2
GSA1-1/2	GSA-V1-1/2	1-1/2A	250V	2
GSA1-6/10	GSA-V1-6/10	1-6/10A	250V	2
GSA2	GSA-V2	2A	250V	2
GSA2-1/4	GSA-V2-1/4	2-1/4A	250V	2
GSA2-1/2	GSA-V2-1/2	2-1/2A	250V	2
GSA2-8/10	GSA-V2-8/10	2-8/10A	250V	2
GSA3	GSA-V3	3A	250V	2
GSA3-2/10	GSA-V3-2/10	3-2/10A	250V	2
GSA3-1/2	GSA-V3-1/2	3-1/2A	250V	2
GSA4	GSA-V4	4A	250V	3
GSA5	GSA-V5	5A	250V	3
GSA6	GSA-V6	6A	250V	3
GSA6-1/4	GSA-V6-1/4	6-1/4A	250V	3
GSA7	GSA-V7	7A	250V	3
GSA8	GSA-V8	8A	250V	3
GSA10	GSA-V10	10A	250V	4
GSA12	GSA-V12	12A	250V	4
GSA15	GSA-V15	15A	250V	4
GSA20	GSA-V20	20A	250V	5
GSA25	GSA-V25	25A	125V	6
GSA30	GSA-V30	30A	125V	6

1. 250VAC @ 35A I.R./125VAC @ 10kA I.R.
2. 250VAC @ 100A I.R./125VAC @ 10kA I.R.
3. 250VAC @ 200A I.R./125VAC @ 10kA I.R.
4. 250VAC @ 750A I.R./125VAC @ 10kA I.R.
5. 250VAC @ 400A I.R./125VAC @ 10kA I.R.
6. 125VAC @ 400A I.R.

Standard Fuse Ampere Ratings

Catalog Number	Axial Lead Cat. No	Ampere Rating	Volts	I.R.
GDL1/16	GDL-V1/16	1/16A	250V	1
GDL1/10	GDL-V1/10	1/10A	250V	1
GDL1/8	GDL-V1/8	1/8A	250V	1
GDL15/100	GDL-V15/100	15/100A	250V	1
GDL175/1000	GDL-V175/1000	175/1000A	250V	1
GDL3/16	GDL-V3/16	3/16A	250V	1
GDL2/10	GDL-V2/10	2/10A	250V	1
GDL1/4	GDL-V1/4	1/4A	250V	1
GDL3/10	GDL-V3/10	3/10A	250V	1
GDL3/8	GDL-V3/8	3/8A	250V	1
GDL4/10	GDL-V4/10	4/10A	250V	1
GDL1/2	GDL-V1/2	1/2A	250V	1
GDL6/10	GDL-V6/10	6/10A	250V	1
GDL7/10	GDL-V7/10	7/10A	250V	1
GDL3/4	GDL-V3/4	3/4A	250V	1
GDL8/10	GDL-V8/10	8/10A	250V	1
GDL1	GDL-V1	1A	250V	1
GDL1-1/4	GDL-V1-1/4	1-1/4A	250V	2
GDL1-1/2	GDL-V1-1/2	1-1/2A	250V	2
GDL1-6/10	GDL-V1-6/10	1-6/10A	250V	2
GDL1-8/10	GDL-V1-8/10	1-8/10A	250V	2
GDL2	GDL-V2	2A	250V	2
GDL2-1/4	GDL-V2-1/4	2-1/4A	250V	2
GDL2-1/2	GDL-V2-1/2	2-1/2A	250V	2
GDL2-8/10	GDL-V2-8/10	2-8/10A	250V	2
GDL3	GDL-V3	3A	250V	2
GDL3-2/10	GDL-V3-2/10	3-2/10A	250V	2
GDL4	GDL-V4	4A	250V	3
GDL5	GDL-V5	5A	250V	3
GDL6	GDL-V6	6A	250V	3
GDL6-1/4	GDL-V6-1/4	6-1/4A	250V	3
GDL7	GDL-V7	7A	250V	3
GDL8	GDL-V8	8A	250V	3
GDL10	GDL-V10	10A	125V	4
GDL12	GDL-V12	12A	125V	4
GDL15	GDL-V15	15A	125V	4
GDL20	GDL-V20	20A	32V	5
GDL25	GDL-V25	25A	32V	5
GDL30	GDL-V30	30A	32V	5

1. 250VAC @ 35A I.R./125VAC @ 10kA I.R.
2. 250VAC @ 100A I.R./125VAC @ 10kA I.R.
3. 250VAC @ 200A I.R./125VAC @ 10kA I.R.
4. 125VAC @ 10kA I.R.
5. 32VAC @ 300A I.R.

Electronic/Glass Fuses

GGC/GGC-V

- Glass body
- Fast-acting
- 1/4" x 1-1/4"
- 1-1/2" Axial leads optional

1/10A through 10A, 250VAC,
UL Listed and CSA Certified
12A and 15A, 125VAC, UL Listed
and CSA Certified - 20A through 30A, 32VAC



GGM/GGM-V

- Glass body
- Fast-acting
- 5mm x 20mm
- 1-1/2" Axial leads optional

1/16A through 3A, 250VAC,
UL Listed and CSA Certified 4A
through 8A, 125VAC, UL Listed and
CSA Certified - 10A and 15A, 250VAC, UL Recognized



Standard Fuse Ampere Ratings

Catalog Number	Axial Lead Cat. No	Ampere Rating	Volts	I.R.
GGC1/10	GGC-V1/10	1/10A	250V	2
GGC1/8	GGC-V1/8	1/8A	250V	2
GGC15/100	GGC-V15/100	15/100A	250V	2
GGC175/1000	GGC-V175/1000	175/1000A	250V	2
GGC3/16	GGC-V3/16	3/16A	250V	2
GGC2/10	GGC-V2/10	2/10A	250V	2
GGC1/4	GGC-V1/4	1/4A	250V	2
GGC3/10	GGC-V3/10	3/10A	250V	2
GGC3/8	GGC-V3/8	3/8A	250V	2
GGC4/10	GGC-V4/10	4/10A	250V	2
GGC1/2	GGC-V1/2	1/2A	250V	2
GGC6/10	GGC-V6/10	6/10A	250V	2
GGC3/4	GGC-V3/4	3/4A	250V	2
GGC8/10	GGC-V8/10	8/10A	250V	2
GGC1	GGC-V1	1A	250V	2
GGC1-1/4	GGC-V1-1/4	1-1/4A	250V	2
GGC1-1/2	GGC-V1-1/2	1-1/2A	250V	2
GGC1-3/4	GGC-V1-3/4	1-3/4A	250V	2
GGC1-6/10	GGC-V1-6/10	1-6/10A	250V	2
GGC2	GGC-V2	2A	250V	2
GGC2-1/4	GGC-V2-1/4	2-1/4A	250V	2
GGC2-1/2	GGC-V2-1/2	2-1/2A	250V	2
GGC3	GGC-V3	3A	250V	2
GGC3-2/10	GGC-V3-2/10	3-2/10A	250V	3
GGC4	GGC-V4	4A	250V	2
GGC5	GGC-V5	5A	250V	2
GGC6	GGC-V6	6A	250V	2
GGC6-3/10	GGC-V6-3/10	6-3/10A	250V	2
GGC7	GGC-V7	7A	250V	2
GGC7-1/2	N/A	7-1/2A	250V	2
GGC8	GGC-V8	8A	250V	2
GGC10	GGC-V10	10A	250V	2
GGC12	GGC-V12	12A	125V	4
GGC15	GGC-V15	15A	125V	4
GGC20	GGC-V20	20A	32V	5
GGC25	GGC-V25	25A	32V	5
GGC30	GGC-V30	30A	32V	5

2. 250VAC @ 200A I.R./125VAC @ 10kA I.R.
3. 250VAC @ 10kA I.R.
4. 125VAC @ 10kA I.R.
5. 32VAC @ 1000A I.R.

Standard Fuse Ampere Ratings

Catalog Number	Axial Lead Cat. No	Ampere Rating	Volts	I.R.
GGM1/16	GGM-V1/16	1/16A	250V	2
GGM1/10	GGM-V1/10	1/10A	250V	3
GGM1/8	GGM-V1/8	1/8A	250V	3
GGM2/10	GGM-V2/10	2/10A	250V	3
GGM1/4	GGM-V1/4	1/4A	250V	3
GGM3/10	GGM-V3/10	3/10A	250V	3
GGM4/10	GGM-V4/10	4/10A	250V	1
GGM1/2	GGM-V1/2	1/2A	250V	3
GGM6/10	GGM-V6/10	6/10A	250V	1
GGM7/10	GGM-V7/10	7/10A	250V	3
GGM3/4	GGM-V3/4	3/4A	250V	3
GGM8/10	GGM-V8/10	8/10A	250V	1
GGM1	GGM-V1	1A	250V	3
GGM1-2/10	N/A	1-2/10A	250V	2
GGM1-1/4	GGM-V1-1/4	1-1/4A	250V	3
GGM1-1/2	GGM-V1-1/2	1-1/2A	250V	3
GGM2	GGM-V2	2A	250V	3
GGM2-1/2	GGM-V2-1/2	2-1/2A	250V	3
GGM3	GGM-V3	3A	250V	3
GGM4	GGM-V4	4A	125V	4
GGM5	GGM-V5	5A	125V	4
GGM6	GGM-V6	6A	125V	4
GGM7	GGM-V7	7A	125V	4
GGM8	GGM-V8	8A	125V	4
GGM15	GGM-V15	15A	250V	5

1. 250VAC @ 35A I.R./125VAC @ 10kA I.R.
2. 250VAC @ 100A I.R./125VAC @ 10kA I.R.
3. 250VAC @ 200A I.R./125VAC @ 10kA I.R.
4. 125VAC @ 10kA I.R.
5. 250VAC @ 100A I.R.

Electronic/Glass Fuses

GGA/GGA-V

- Glass body
- Time-delay
- 5mm x 20mm
- 1-1/2" Axial leads optional



1/10 through 3A, 250VAC, UL Listed and CSA Certified
4A and 5A, 125VAC, UL Listed and CSA Certified



GSC/GSC-V

- Glass / ceramic body
- Time-delay
- 5mm x 20mm
- 1-1/2" Axial leads optional



1/10A through 3A, 250VAC, UL Listed and CSA Certified - 4A through 8A, 125VAC, UL Listed and CSA Certified - 10A, 125VAC, UL and CSA Recognized



Standard Fuse Ampere Ratings

Catalog Number	Axial Lead Cat. No	Ampere Rating	Volts	I.R.
GGA1/10	GGA-V1/10	1/10A	250V	1
GGA1/8	GGA-V1/8	1/8A	250V	1
GGA2/10	GGA-V2/10	2/10A	250V	1
GGA1/4	GGA-V1/4	1/4A	250V	1
GGA3/10	GGA-V3/10	3/10A	250V	1
GGA4/10	GGA-V4/10	4/10A	250V	1
GGA1/2	GGA-V1/2	1/2A	250V	1
GGA6/10	GGA-6/10	6/10A	250V	1
GGA7/10	GGA-V7/10	7/10A	250V	1
GGA3/4	GGA-V3/4	3/4A	250V	1
GGA8/10	GGA-V8/10	8/10A	250V	1
GGA1	GGA-V1	1A	250V	2
GGA1-1/4	GGA-V1-1/4	1-1/4A	250V	2
GGA1-1/2	GGA-V1-1/2	1-1/2A	250V	2
GGA1-6/10	GGA-V1-6/10	1-6/10A	250V	2
GGA2	GGA-V2	2A	250V	2
GGA2-1/2	GGA-V2-1/2	2-1/2A	250V	2
GGA3	GGA-V3	3A	250V	2
GGA4	GGA-V4	4A	125V	3
GGA5	GGA-V5	5A	125V	3

1. 250VAC @ 35A I.R./125VAC @ 10kA I.R.
2. 250VAC @ 100A I.R./125VAC @ 10kA I.R.
3. 125VAC @ 10kA I.R.

Standard Fuse Ampere Ratings

Catalog Number	Axial Lead Cat. No	Ampere Rating	Volts	I.R.
GSC1/10	GSC-V1/10	1/10A	250V	1
GSC1/8	GSC-V1/8	1/8A	250V	1
GSC1/4	GSC-V1/4	1/4A	250V	1
GSC3/10	GSC-3/10	3/10A	250V	1
GSC4/10	GSC-V4/10	4/10A	250V	1
GSC1/2	GSC-V1/2	1/2A	250V	1
GSC6/10	GSC-V6/10	6/10A	250V	1
GSC7/10	GSC-V7/10	7/10A	250V	1
GSC3/4	GSC-V3/4	3/4A	250V	1
GSC8/10	GSC-V8/10	8/10A	250V	1
GSC1	GSC-V1	1A	250V	1
GSC1-1/4	GSC-V1-1/4	1-1/4A	250V	1
GSC1-1/2	GSC-V1-1/2	1-1/2A	250V	1
GSC1-6/10	GSC-V1-6/10	1-6/10A	250V	1
GSC2	GSC-V2	2A	250V	1
GSC2-1/2	GSC-V2-1/2	2-1/2A	250V	1
GSC3	GSC-V3	3A	250V	1
GSC4	GSC-V4	4A	125V	2
GSC5	GSC-V5	5A	125V	2
GSC6	GSC-V6	6A	125V	2
GSC7	GSC-V7	7A	125V	2
GSC8	GSC-V8	8A	125V	2
GSC10		10A	125V	3

1. 250VAC @ 100A I.R./125VAC @ 10kA I.R.
2. 125VAC @ 10kA I.R.
3. 125VAC @ 1000A I.R.

Electronic/Glass Fuses

GSB/GSB-V

- Glass body
- Fast-acting
- 5mm x 20mm
- 1-1/2" Axial leads optional



1/16A through 10A, 250VAC, UL and CSA Recognized
1/16A through 6-3/10A, 250VAC, SEMKO Approved
1/16A through 6-3/10A, 250VAC, VDE Approved
IEC-127-2 Standard Sheet 2*



Standard Fuse Ampere Ratings

Catalog Number	Axial Lead Cat. No	Ampere Rating	Volts	I.R.
GSB1/16	GSB-V1/16	1/16A	250V	1
GSB8/100	GSB-V8/100	8/100A	250V	1
GSB1/10	GSB-V1/10	1/10A	250V	1
GSB1/8	GSB-V1/8	1/8A	250V	1
GSB16/100	GSB-V16/100	16/100A	250V	1
GSB2/10	GSB-V2/10	2/10A	250V	1
GSB1/4	GSB-V1/4	1/4A	250V	1
GSB315/1000	GSB-V315/1000	315/1000A	250V	1
GSB4/10	GSB-V4/10	4/10A	250V	1
GSB1/2	GSB-V1/2	1/2A	250V	1
GSB630/1000	GSB-V630/1000	630/1000A	250V	1
GSB8/10	GSB-V8/10	8/10A	250V	1
GSB1	GSB-V1	1A	250V	1
GSB1-1/4	GSB-V1-1/4	1-1/4A	250V	1
GSB1-6/10	GSB-V1-6/10	1-6/10A	250V	1
GSB2	GSB-V2	2A	250V	1
GSB2-1/2	GSB-V2-1/2	2-1/2A	250V	1
GSB3-15/100	GSB-V3-15/100	3-15/100A	250V	1
GSB4	GSB-V4	4A	250V	2
GSB5	GSB-V5	5A	250V	3
GSB6-3/10	GSB-V6-3/10	6-3/10A	250V	4
GSB8	GSB-V8	8A	250V	5
GSB10	GSB-V10	10A	250V	6

1. 250VAC @ 35A I.R.
2. 250VAC @ 40A I.R.
3. 250VAC @ 50A I.R.
4. 250VAC @ 63A I.R.
5. 250VAC @ 80A I.R.
6. 250VAC @ 100A I.R.

*IEC Standards for 5x20mm fuses do not include ratings above 6.3 amperes.

GDG/GDG-V

- Glass body
- Time-delay
- 5mm x 20 mm
- 1-1/2" Axial leads optional



1/16A through 10A, 250VAC, UL & CSA Recognized
1/16A through 6-3/10A, 250VAC, SEMKO Approved
1/16A through 6-3/10A, 250VAC, VDE Approved
IEC 127-2 Standard Sheet 3*



Standard Fuse Ampere Ratings

Catalog Number	Axial Lead Cat. No	Ampere Rating	Volts	I.R.
GDG1/16	GDG-V1/16	1/16A	250V	1
GDG8/100	GDG-V8/100	8/100A	250V	1
GDG1/10	GDG-V1/10	1/10A	250V	1
GDG1/8	GDG-V1/8	1/8A	250V	1
GDG16/100	GDG-V16/100	16/100A	250V	1
GDG2/10	GDG-V2/10	2/10A	250V	1
GDG1/4	GDG-V1/4	1/4A	250V	1
GDG315/1000	GDG-V315/1000	315/1000A	250V	1
GDG4/10	GDG-V4/10	4/10A	250V	1
GDG1/2	GDG-V1/2	1/2A	250V	1
GDG630/1000	GDG-V630/1000	630/1000A	250V	1
GDG8/10	GDG-V8/10	8/10A	250V	1
GDG1	GDG-V1	1A	250V	1
GDG1-1/4	GDG-V1-1/4	1-1/4A	250V	1
GDG1-6/10	GDG-V1-6/10	1-6/10A	250V	1
GDG2	GDG-V2	2A	250V	1
GDG2-1/2	GDG-V2-1/2	2-1/2A	250V	1
GDG3-15/100	GDG-V3-15/100	3-15/100A	250V	1
GDG4	GDG-V4	4A	250V	2
GDG5	GDG-V5	5A	250V	3
GDG6-3/10	GDG-V6-3/10	6-3/10A	250V	4
GDG8	GDG-V8	8A	250V	5
GDG10	GDG-V10	10A	250V	6

1. 250VAC @ 35A I.R.
2. 250VAC @ 40A I.R.
3. 250VAC @ 50A I.R.
4. 250VAC @ 63A I.R.
5. 250VAC @ 80A I.R.
6. 250VAC @ 100A I.R.

*IEC Standards for 5x20mm fuses do not include ratings above 6.3 amperes.

Electronic/Glass Fuses

GSD/GSD-V

- Ceramic body
- Fast-acting
- 5mm x 20mm
- 1-1/2" Axial leads optional

1/16A through 10A, 250VAC, UL & CSA Recognized
1A through 6-3/10A, 250 VAC, SEMKO Approved
1A through 6-3/10A, 250 VAC, VDE Approved
IEC 127-2 Standard Sheet 1*



GSF/GSF-V

- Ceramic body
- Time-delay
- 5mm x 20 mm
- 1-1/2" Axial leads optional

1/2A through 8/10A, 250VAC
1A through 6-3/10A, 250VAC, SEMKO, VDE Approved
1A through 10A, 250VAC, UL and CSA Recognized
IEC-127-2 Standard Sheet 5*



Standard Fuse Ampere Ratings

Catalog Number	Axial Lead Cat. No	Ampere Rating	Volts	I.R.
GSD1/16	GSD-V1/16	1/16A	250V	1
GSD1/10	GSD-V1/10	1/10A	250V	1
GSD1/8	GSD-V1/8	1/8A	250V	1
GSD16/100	GSD-V16/100	16/100A	250V	1
GSD2/10	GSD-V2/10	2/10A	250V	1
GSD1/4	GSD-V1/4	1/4A	250V	1
GSD315/1000	GSD-V315/1000	315/1000A	250V	1
GSD4/10	GSD-V4/10	4/10A	250V	1
GSD1/2	GSD-V1/2	1/2A	250V	1
GSD630/1000	GSD-V630/1000	630/1000A	250V	1
GSD8/10	GSD-V8/10	8/10A	250V	1
GSD1	GSD-V1	1A	250V	1
GSD1-1/4	GSD-V1-1/4	1-1/4A	250V	1
GSD1-6/10	GSD-V1-6/10	1-6/10A	250V	1
GSD2	GSD-V2	2A	250V	1
GSD2-1/2	GSD-V2-1/2	2-1/2A	250V	1
GSD3-15/100	GSD-V3-15/100	3-15/100A	250V	1
GSD4	GSD-V4	4A	250V	1
GSD5	GSD-V5	5A	250V	1
GSD6-3/10	GSD-V6-3/10	6-3/10A	250V	1
GSD8	GSD-V8	8A	250V	1
GSD10	GSD-V10	10A	250V	1

1. 250VAC @ 1500A I.R.

*IEC Standards for 5x20mm fuses do not include ratings above 6.3 amperes.

Standard Fuse Ampere Ratings

Catalog Number	Axial Lead Cat. No	Ampere Rating	Volts	I.R.
GSF1/2	GSF-V1/2	1/2A	250V	1
GSF630/1000	GSF-V630/1000	630/1000A	250V	1
GSF8/10	GSF-V8/10	8/10A	250V	1
GSF1	GSF-V1	1A	250V	1
GSF1-1/4	GSF-V1-1/4	1-1/4A	250V	1
GSF1-6/10	GSF-V1-6/10	1-6/10A	250V	1
GSF2	GSF-V2	2A	250V	1
GSF2-1/2	GSF-V2-1/2	2-1/2A	250V	1
GSF3-15/100	GSF-V3-15/100	3-15/100A	250V	1
GSF4	GSF-V4	4A	250V	1
GSF5	GSF-V5	5A	250V	1
GSF6-3/10	GSF-V6-3/10	6-3/10A	250V	1
GSF8	GSF-V8	8A	250V	1
GSF10	GSF-V10	10A	250V	1

1. 250VAC @ 1500A I.R.

*IEC Standards for 5x20mm fuses do not include ratings above 6.3 amperes.

Electronic/Glass Fuses

GGX

- Glass body
- Fast-acting
- 1/4" x 1"



1/2A through 2 1/2A, 250VAC, UL Listed
3A through 7A, 125V AC, UL Recognized
8A through 30A, 32V AC, UL Recognized



Standard Fuse Ampere Ratings

Catalog Number	Ampere Rating	Volts	I.R.
GGX1/2	1/2A	250V	1
GGX3/4	3/4A	250V	1
GGX1	1A	250V	1
GGX1-1/2	1-1/2A	250V	2
GGX2	2A	250V	2
GGX2-1/2	2-1/2A	250V	3
GGX3	3A	125V	3
GGX4	4A	125V	3
GGX5	5A	125V	3
GGX6	6A	125V	3
GGX7	7A	125V	3
GGX8	8A	32V	4
GGX10	10A	32V	4
GGX12	12A	32V	4
GGX15	15A	32V	4
GGX20	20A	32V	4
GGX25	25A	32V	4
GGX30	30A	32V	4

1. 250VAC @ 35A I.R./125VAC @ 10kA I.R.
2. 250VAC @ 100A I.R./125VAC @ 10kA I.R.
3. 125VAC @ 10kA I.R.
4. 32VAC

GAB

- Ceramic body
- Fast-acting
- 1/4" x 1-1/4"



1/8A through 15A, 250VAC,
UL Listed and CSA Certified
20A through 30A, 250/125VAC, UL Recognized



Standard Fuse Ampere Ratings

Catalog Number	Ampere Rating	Volts	I.R.
GAB1/8	1/8A	250V	1
GAB1/4	1/4A	250V	1
GAB3/8	3/8A	250V	1
GAB1/2	1/2A	250V	1
GAB3/4	3/4A	250V	1
GAB1	1A	250V	1
GAB2	2A	250V	2
GAB2-1/2	2-1/2A	250V	2
GAB3	3A	250V	2
GAB4	4A	250V	3
GAB5	5A	250V	3
GAB6	6A	250V	3
GAB7	7A	250V	3
GAB8	8A	250V	3
GAB10	10A	250V	3
GAB12	12A	250V	4
GAB15	15A	250V	4
GAB20	20A	250V	5
GAB25	25A	125V	6
GAB30	30A	125V	6

1. 250VAC @ 35A I.R./125VAC @ 10kA I.R.
2. 250VAC @ 100A I.R./125VAC @ 10kA I.R.
3. 250VAC @ 200A I.R./125VAC @ 10kA I.R.
4. 250VAC @ 750A I.R./125VAC @ 10kA I.R.
5. 250V/125VAC @ 400A I.R.
6. 125VAC @ 400kA I.R.

Electronic/Glass Fuses



SMG/SMG-V

- Glass body
- Fast-acting
- 1-1/2" Axial leads optional

1/10A & 3/8A, 250VAC, UL Listed CSA Certified
1/8A through 7A, 350VAC, UL and CSA Recognized
8A & 10A, 125VAC



STG/STG-V

- Glass body
- Time-delay
- 1-1/2" Axial leads optional

3/8A 250VAC, UL Listed and CSA Certified
1/4A through 7A, 350VAC, UL and CSA Recognized



Standard Fuse Ampere Ratings

Catalog Number	Axial Lead Cat. No	Ampere Rating	Volts	I.R.	Size
SMG1/10	SMG-V1/10	1/10A	250V	1	A
SMG1/8	SMG-V1/8	1/8A	350V	2	B
SMG1/4	SMG-V1/4	1/4A	350V	2	B
SMG3/8	SMG-V3/8	3/8A	250V	1	A
SMG1/2	SMG-V1/2	1/2A	350V	2	B
SMG3/4	SMG-V3/4	3/4A	350V	2	B
SMG1	SMG-V1	1A	350V	2	B
SMG1-1/2	SMG-V1-1/2	1-1/2A	350V	2	B
SMG2	SMG-V2	2A	350V	2	B
SMG2-1/2	SMG-V2-1/2	2-1/2A	350V	2	B
SMG3	SMG-V3	3A	350V	2	B
SMG3-1/2	SMG-V3-1/2	3-1/2A	350V	2	B
SMG4	SMG-V4	4A	350V	2	B
SMG5	SMG-V5	5A	350V	2	B
SMG6	SMG-V6	6A	350V	2	B
SMG7	SMG-V7	7A	350V	2	B
SMG8	SMG-V8	8A	125V	3	A
SMG10	SMG-V10	10A	125V	3	A

1. 250VAC @ 35A I.R./125VAC @ 10kA I.R.
2. 350VAC @ 100A I.R./140VDC @ 150A I.R./125VAC @ 10kA I.R.
3. 125VAC @ 10kA I.R.

Standard Fuse Ampere Ratings

Catalog Number	Axial Lead Cat. No	Ampere Rating	Volts	I.R.	Size
STG1/4	STG-V1/4	1/4A	350V	2	B
STG3/8	STG-V3/8	3/8A	250V	1	A&C
STG1/2	STG-V1/2	1/2A	350V	2	B
STG6/10	STG-V6/10	6/10A	350V	2	B
STG3/4	STG-V3/4	3/4A	350V	2	B
STG8/10	STG-V8/10	8/10A	350V	2	B
STG1	STG-V1	1A	350V	2	B
STG1-1/4	STG-V1-1/4	1-1/4A	350V	2	B
STG1-1/2	STG-V1-1/2	1-1/2A	350V	2	B
STG2	STG-V2	2A	350V	2	B
STG2-1/2	STG-V2-1/2	2-1/2A	350V	2	B
STG3	STG-V3	3A	350V	2	B
STG3-1/2	STG-V3-1/2	3-1/2A	350V	2	B
STG4	STG-V4	4A	350V	2	B
STG5	STG-V5	5A	350V	2	B
STG6	STG-V6	6A	350V	2	B
STG7	STG-V7	7A	350V	2	B

1. 250VAC @ 35A I.R./125VAC @ 10kA I.R.
2. 350VAC @ 100A I.R./140VDC @ 150A I.R./125VAC @ 10kA I.R.

Size	Non-lead		With leads		
	A	B	A	B (Insulated Caps)	C
Length (mm)	14.5 +/- 0.75	13.8 +/- 0.5	15.2 +/- 0.75	18 +/- 0.2	14.48
Diameter (mm)	4.6 +/- 0.1	5.1 +/- 0.1	5.5 +/- 0.2	6.2 +/- 0.2	4.7

For the most current product performance data visit ep.mersen.com and use catalog search.

Radial Lead Micro Fuses

MRF

- Fast-acting microfuse

Thermoplastic body
and cap, UL 94-V0

Pins are tin-lead plated copper alloy

Approvals: VDE, MITI, CE,

UL Recognized, CSA Accepted

50mA to 6.3A, 250VAC - UL Recognized and CSA Accepted



MRT

- Time-delay microfuse

Thermoplastic body
and cap, UL 94-V0

Pins are tin-lead plated copper alloy

Approvals: SEMCO, VDE, MITI, CE,

UL Recognized, CSA Accepted

80mA to 6.3A, 250VAC - UL Recognized and CSA Accepted



Standard Fuse Ampere Ratings

Catalog Number	Ampere Rating	Volts	Fuse Length
MRF50	50mA	250V	1
MRF63	63mA	250V	1
MRF80	80mA	250V	1
MRF100	100mA	250V	1
MRF125	125mA	250V	1
MRF160	160mA	250V	1
MRF200	200mA	250V	1
MRF250	250mA	250V	1
MRF315	315mA	250V	1
MRF400	400mA	250V	1
MRF500	500mA	250V	1
MRF630	630mA	250V	1
MRF800	800mA	250V	1
MRF1	1A	250V	1
MRF1.25	1.25A	250V	1
MRF1.6	1.6A	250V	1
MRF2	2A	250V	1
MRF2.5	2.5A	250V	1
MRF3.15	3.15A	250V	1
MRF4	4A	250V	1
MRF5	5A	250V	1
MRF6.3	6.3A	250V	1

1. 250VAC @ 50A I.R.

Standard Fuse Ampere Ratings

Catalog Number	Ampere Rating	Volts	Fuse Length
MRT80	80mA	250V	1
MRT100	100mA	250V	1
MRT125	125mA	250V	1
MRT160	160mA	250V	1
MRT200	200mA	250V	1
MRT250	250mA	250V	1
MRT315	315mA	250V	1
MRT400	400mA	250V	1
MRT500	500mA	250V	1
MRT630	630mA	250V	1
MRT800	800mA	250V	1
MRT1	1A	250V	1
MRT1.25	1.25A	250V	1
MRT1.6	1.6A	250V	1
MRT2	2A	250V	1
MRT2.5	2.5A	250V	1
MRT3.15	3.15A	250V	1
MRT4	4A	250V	1
MRT5	5A	250V	1
MRT6.3	6.3A	250V	1

1. 250VAC @ 50A I.R.

In-Line Fuse Holders SFRT, SFRB, SFRG, FSFE, SFRU

SFRT

- Twist-lock
- In-line fuse holders for FSFE fuses.
- Used at 32V or less with fuses rated up to 20A when proper spring for fuse size is installed.



Standard Fuse Ampere Ratings

Catalog Number*	Fuse Installed
SFRT4	FSFE4
SFRT6	FSFE6
SFRT7-1/2	FSFE7-1/2
SFRT9	FSFE9
SFRT14	FSFE14
SFRT20	FSFE20

*Includes FSFE fuse

SFRB

- Bayonet knob
- In-line fuse holders for FSFE fuses.
- Used at 32V or less with fuses rated up to 20A when proper spring for fuse size is installed.



Standard Fuse Ampere Ratings

Catalog Number*	Fuse Installed
SFRB4	FSFE4
SFRB6	FSFE6
SFRB7-1/2	FSFE7-1/2
SFRB9	FSFE9
SFRB14	FSFE14
SFRB20	FSFE20

*Includes FSFE fuse

SFRG

- In-line fuse holder for 5 x 20mm fuses.
- Max. current rating for 5x20mm fuses - 10A @ 32V



FSFE

- Glass body
- Fast-acting

4A through 30A, 32VAC/DC - UL Listed



Standard Fuse Ampere Ratings

Catalog Number	Ampere Rating	Volts	Fuse Length
FSFE4	4A	32V	5/8"
FSFE6	6A	32V	3/4"
FSFE7-1/2	7-1/2A	32V	7/8"
FSFE9	9A	32V	7/8"
FSFE14	14A	32V	1-1/16"
FSFE20	20A	32V	1-1/4"
FSFE30	30A	32V	1-7/16"

SFRU

Universal in-line fuse holder - supplied with 15" loop of #14 AWG red vinyl insulated wire frame and three springs in different lengths to accommodate FSFE size fuses.



In-Line Fuses and Holders SLR, SMF, SHR

Mersen SLR and SMF in-line fuses are used to protect fluorescent lighting fixtures and ballasts. The SLR is a fast-acting fuse. SMF is a time-delay fuse. Both used to protect individual 300V fixtures. Mersen's SHR fuse holder has an integral clip for panel mounting to meet this requirement. The holder fits into a standard 7/8" knock-out or keyhole punch that provides anti-rotation. The SHR is available in a single or double wire version. The single wire version (SHR-1) allows insertion of #18 AWG ballast leads directly into the holder.

SLR Fuses Ratings:

Volts : 300VAC
Amps : 1/2 to 15A
I.R. : 10kA I.R.

Approvals:

- UL Listed
File No. E10480
CSA Certified



SMF Fuses Ratings:

Volts : 300VAC
Amps : 3/10 to 10A
I.R. : 10kA I.R.

Approvals:

- UL Listed
File No. E10480
CSA Certified



SHR Fuse Holders Ratings:

Volts : 300VAC
Amps : 15A
Withstand Rating:
: 10kA I.R.
Dielectric Strength:
: 2,000V

Approvals:

- UL Recognized
Component Guide
IZLT2, UL File
No. E52283



Highlights:

- Fast-acting
- Integral fuse & insulating cap

Highlights:

- Time-delay
- Integral fuse & insulating cap
- Designed specifically to handle ballast inrush currents

Highlights:

- Superior wire retention
- Thermoplastic insulator - 150° C RTI
- Single and two wire versions
- Two load plug-in ports available
- Integral mounting clip 0.062" thick panel
- Integral wire retention clip to hold #18 wire
- Tin plated, insulated #18 solid copper wire leads, 6" length



In-Line Fuses and Holders SLR, SMF, SHR

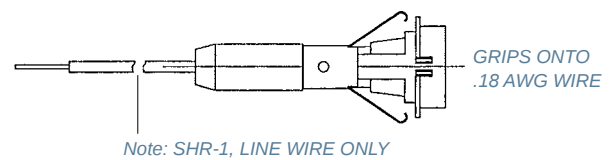
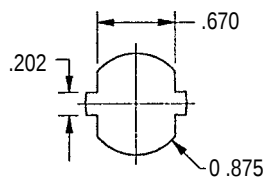
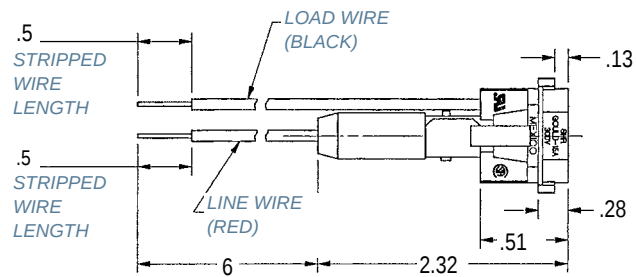
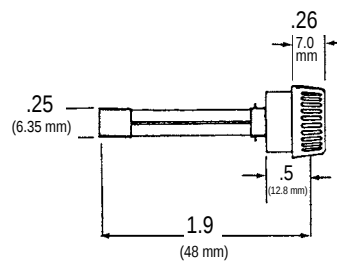
Catalog Numbers

Ampere Rating	Catalog Numbers	
300mA		SMF3/10
500mA	SLR1/2	SMF1/2
600mA		SMF6/10
800mA		SMF8/10
1A	SLR1	SMF1
1-1/4A		SMF1-1/4
1-1/2A	SLR1-1/2	
1-6/10A	SLR1-6/10	SMF1-6/10
2A	SLR2	SMF2
2-1/2A	SLR2-1/2	SMF2-1/2
2-8/10A		SMF2-8/10
3A	SLR3	SMF3
3-2/10A		SMF3-2/10
4A	SLR4	SMF4
5A	SLR5	SMF5
6A	SLR6	
6 1/4A		SMF 6 1/4
7A	SLR7	SMF7
8A	SLR8	SMF8
9A	SLR9	
10A	SLR10	SMF10
12A	SLR12	
15A	SLR15	

Fuse Holders

Single Wire	Two Wire
SHR-1	SHR

Note: Both holders are compatible with all fluorescent light fuses



Automotive Fuses AF, AF2, AF3

AF

- Automotive fuse
- Fast-acting
- Plastic Body
- Zinc alloy terminals
- ISO 8820-3 compliant

1A through 40A, 32VAC/DC
1000 A I.R.



AF2

- Automotive fuse
- Fast-acting
- Plastic body
- Zinc alloy terminals
- ISO 8820-3 compliant

2A through 30A, 32VDC
1000 A I.R.



Standard Fuse Ampere Ratings

Catalog Number	Ampere Rating	Volts	Body Color
AF-1	1A	32V	BLACK
AF-2	2A	32V	GREY
AF-3	3A	32V	VIOLET
AF-4	4A	32V	PINK
AF-5	5A	32V	TAN
AF-7-1/2	7-1/2A	32V	BROWN
AF-10	10A	32V	RED
AF-15	15A	32V	BLUE
AF-20	20A	32V	YELLOW
AF-25	25A	32V	NATURAL
AF-30	30A	32V	GREEN
AF-35	35A	32V	BLUE GREEN
AF-40	40A	32V	AMBER

Standard Fuse Ampere Ratings

Catalog Number	Ampere Rating	Volts	Body Color
AF2-2	2A	32V	GREY
AF2-3	3A	32V	VIOLET
AF2-4	4A	32V	PINK
AF2-5	5A	32V	TAN
AF2-7-1/2	7-1/2A	32V	BROWN
AF2-10	10A	32V	RED
AF2-15	15A	32V	BLUE
AF2-20	20A	32V	YELLOW
AF2-25	25A	32V	NATURAL
AF2-30	30A	32V	GREEN

AF3

- Automotive fuse
- Time-delay
- Plastic body
- Zinc alloy/tin-plated terminals
- ISO 8820-3 compliant

20A through 80A, 32VDC, 1000 A I.R.



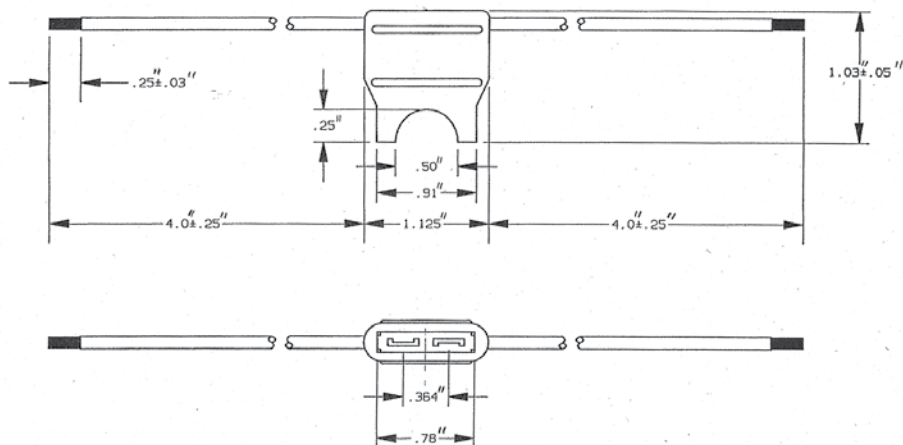
Standard Fuse Ampere Ratings

Catalog Number	Ampere Rating	Volts	Body Color
AF3-20	20A	32V	YELLOW
AF3-30	30A	32V	GREEN
AF3-40	40A	32V	AMBER
AF3-50	50A	32V	RED
AF3-60	60A	32V	BLUE
AF3-70	70A	32V	TAN
AF3-80	80A	32V	NATURAL

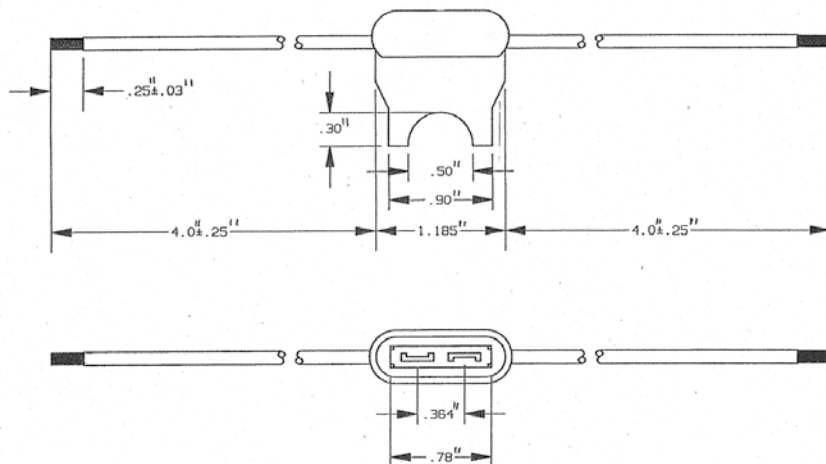
Automotive Fuse Holders AFH20, AFH30

In-line fuseholders for blade type automobile fuses. 4" stranded wire leads are stripped back 1/4".

Catalog Number	Fuse Type & Max Amp	Volts	Body Color	AWG/Color
AFH20-14	AF Fuse/20A	32V	BLACK	#14/BLACK
AFH20-14Y	AF Fuse/20A	32V	YELLOW	#14/BLACK
AFH20-16	AF Fuse/20A	32V	YELLOW	#16/BLACK
AFH20-16Y	AF Fuse/20A	32V	YELLOW	#16/BLACK

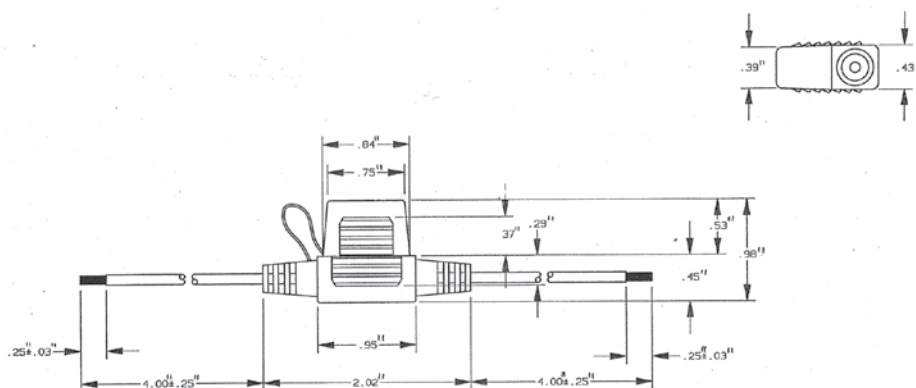


Catalog Number	Fuse Type & Max Amp	Volts	Body Color	AWG/Color
AFH30-12	AF Fuse/30A	32V	BLACK	#12/YELLOW
AFH30C	AF Fuse/30A	32V	BLACK	#12/ORANGE



Automotive Fuse Holders AF2H30, AF3H60

Catalog Number	Fuse Type & Max Amp	Volts	Body Color	AWG/Color
AF2H30C	AF Fuse/30A	32V	BLACK	#12/ORANGE



Catalog Number	Fuse Type & Max Amp	Volts	Body Color	AWG/Color
AF3H60C	AF Fuse/60A	32V	BLACK	#6/RED

