


# AUTOMOTIVE BLADE FUSE CLIP & HOLDERS

**Underwriters Laboratories, Inc.**  
**Recognized Component Program –**  
**UL File Number E354010**



UL file number E354010 has been assigned to Keystone Electronics' automotive fuse clip and holders. (Refer to pages 44-47) Indicating recognition by Underwriters Laboratories Inc. that they are in compliance with their component program.

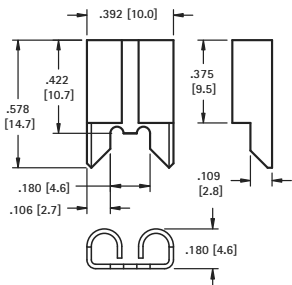
- Clips & holders available for Mini, Standard, Low Profile & Maxi Auto Blade fuses
- Horizontal and vertical fuse clips and holder options
- Holds fuse securely, even after multiple insertions
- THM components maintain position during wave soldering
- SMT components available on tape and reel for automated assembly

## “MAXI” AUTOMOTIVE FUSE CLIP & HOLDER

**FOR .312 (7.9) × .032 (.80) MAXI BLADE FUSES**

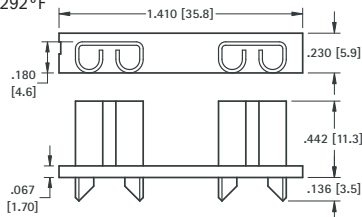
For Littelfuse Maxi 299 series/Bussmann Max series or equivalent

- Thru hole PC mountable, maintains position during wave soldering
- Holder design prevents solder wicking
- Withstands the rigors of shock and vibration
- Holds fuse securely, even after multiple insertions

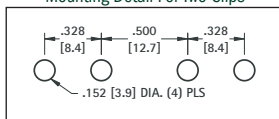


### SPECIFICATIONS

**Contacts:** .020 (.51) Copper, Tin-Nickel Plate  
**Insulator:** Glass filled Nylon, UL Rated 94V-0  
**UL Current Rating:** 50 Amps @ 500V AC  
**UL Temperature Rating:** -58°F to +292°F (-50°C to +145°C)



### Mounting Detail For Two Clips



**CAT. NO. 3555**

**CAT. NO. 3555-2**

## MODULAR AUTOMOTIVE BLADE FUSE HOLDERS

**FOR .205 (5.2) × .025 (.64) STANDARD BLADE FUSES**

For Littelfuse ATOF 287 series/Bussmann ATC series or equivalent

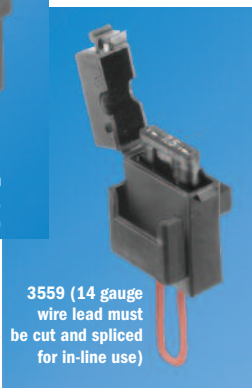
### SPECIFICATIONS

**Contacts:** Brass, Tin Plate  
**Body:** Nylon  
**Current Rating:** 30 Amps @ 500V AC (Non-UL Rated)  
**Temperature Rating:** -58°F to +292°F (-50°C to +145°C)

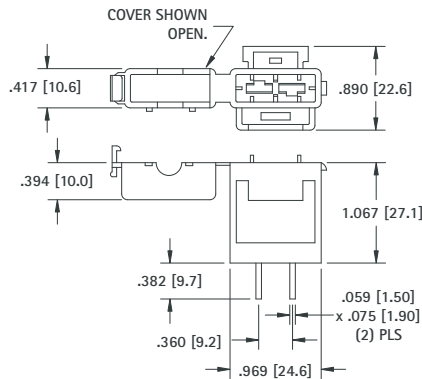
- Designed for standard auto blade fuses
- Fully insulated compact design
- Mounts easily in pre-drilled or punched hole
- Holder has pocket to hold spare fuse
- Safety lever release clip will not open under shock or vibration
- Fuses are installed and removed easily
- May be used individually or easily interlocked for multiple mounting



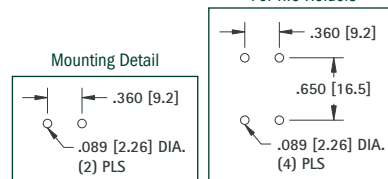
**3560** (Shown with two 3560 holders, interlocked)



**3559** (14 gauge wire lead must be cut and spliced for in-line use)



### Mounting Detail For Two Holders



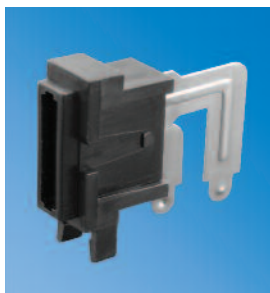
**CAT. NO. 3560** (PC Mount) \*

**CAT. NO. 3559** (In Line) \*

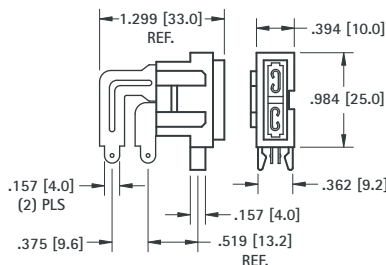
### SPECIFICATIONS

**Contacts:** Brass, Tin Plate  
**Body:** Nylon  
**Current Rating:** 30 Amps @ 500V AC (Non-UL Rated)  
**Temperature Rating:** -58°F to +292°F (-50°C to +145°C)

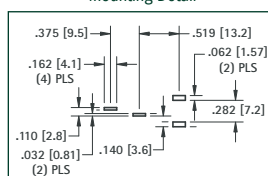
- Fully insulated fuse mount
- Designed for standard auto blade fuses
- Mounts easily in punched hole
- Fuses are installed and removed easily
- May be used individually or easily interlocked for multiple mounting



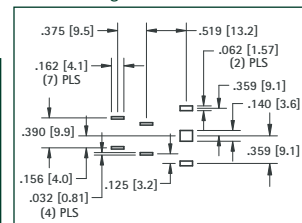
**CAT. NO. 3558** \*



### Mounting Detail



### Mounting Detail For Two Holders



\*Modular Fuse Holders are not UL recognized

“AUTO” FUSE CLIPS & HOLDERS

## FOR .205 (5.2) × .025 (.64) STANDARD BLADE FUSES

For Littelfuse ATOF 287 series/Bussmann ATC series or equivalent

- Holds fuse securely, even after multiple insertions
- Thru hole-mount, maintains position during wave soldering
- Withstands the rigors of shock and vibration
- Holder design prevents solder wicking

### VERTICAL FUSE ENTRY

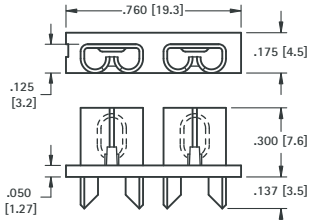
#### SPECIFICATIONS

**Contacts:** .016 (.41) Brass, Tin-Nickel Plate

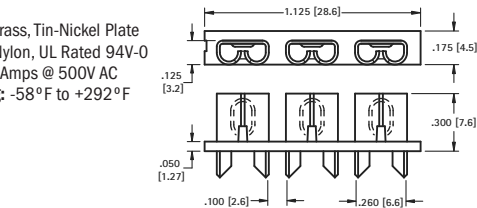
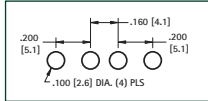
**Insulator:** Glass filled Nylon, UL Rated 94V-0

**UL Current Rating:** 20 Amps @ 500V AC

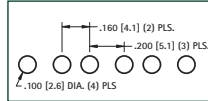
**UL Temperature Rating:** -58°F to +292°F (-50°C to +145°C)



Mounting Detail For Two Clips



Mounting Detail For Two Clips



3522-3

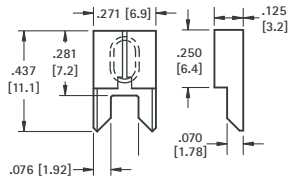


3522-2

CAT. NO. 3522-2

CAT. NO. 3522-3

### VERTICAL ENTRY

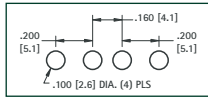


#### SPECIFICATIONS

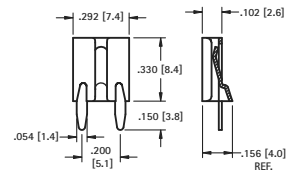
**Contacts:** .016 (.41) Brass

**UL Current Rating:** 30 Amps @ 500 VAC

Mounting Detail For Two Clips



### LOW INSERTION FORCE



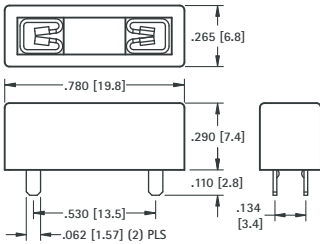
CAT. NO. 3522 Tin-Nickel Plate

CAT. NO. 3573 Matte Tin Plate

### 2 IN 1 FUSE HOLDER

For Littelfuse ATOF 287 series/Bussmann ATC series, Littelfuse Low Profile Mini (LP) series or equivalents

- Low insertion force
- Fuse holder fully insulates clips to protect fuse from shorting
- Holder assures proper spacing and reduces assembly time
- Thru hole PC mountable, maintains position during wave soldering



#### SPECIFICATIONS

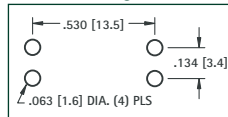
**Contacts:** .016 (.41) Brass, Tin-Nickel Plate

**Insulator:** Nylon 4/6, UL Rated 94V-0

**UL Current Rating:** 30 Amps @ 500V AC

**UL Temperature Rating:** -58°F to +292°F (-50°C to +145°C)

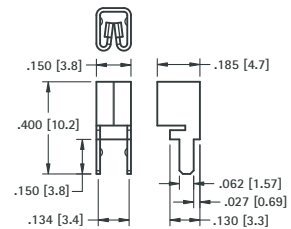
Mounting Detail



### UNIVERSAL CLIP

For Littelfuse ATOF 287 series/Bussmann ATC series, Littelfuse Mini 297 or 997 series/Bussmann ATM series, Littelfuse Low Profile Mini (LP) series or equivalents

- Accepts most Auto-Blade Fuses
- Low insertion force
- Thru hole PC mountable, maintains position during wave soldering



CAT. NO.	COLOR	FUSE REF.
3557-2	Black	-
3557-10	Red	10 Amp
3557-15	Blue	15 Amp
3557-20	Yellow	20 Amp

All colors UL rated for 30 Amp.

CAT. NO. 3557 - Top Entry

CAT. NO. 3577 - Bottom Entry

### HORIZONTAL FUSE ENTRY

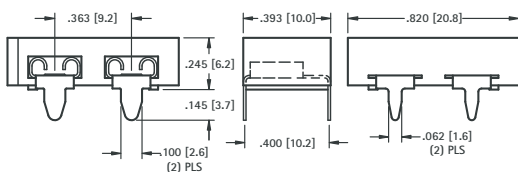
- Designed for low height clearance applications
- Fuse will be inserted parallel to board
- Thru hole mount, maintains position during wave soldering
- Fuse holder fully insulates clips to protect fuse from shorting
- Holder assures proper spacing and reduces assembly time
- Polarized legs assure proper orientation of clips onto board

#### SPECIFICATIONS

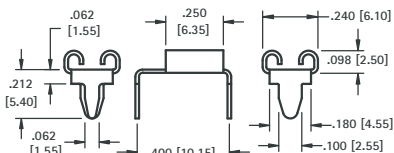
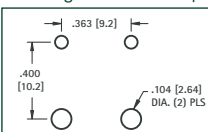
**Contacts:** .012 (.30) Brass

**Insulator:** Nylon, UL Rated 94V-0

**UL Temperature Rating:** -58°F to +292°F (-50°C to +145°C)



Mounting Detail For Two Clips



CAT. NO. 3550-2 Tin Plate UL Current Rating: 20 Amps @ 500V AC

UL Current Rating: 30 Amps @ 500V AC CAT. NO. 3550 Tin-Nickel Plate

## For .110 (2.8) x .032 (.80) MINI BLADE FUSES

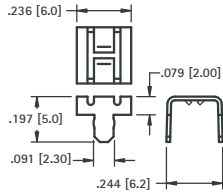
For Littelfuse Mini 297 or 997 series/Bussmann ATM series or equivalent

### VERTICAL FUSE ENTRY

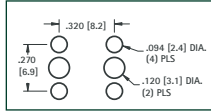
#### Thru Hole Mount



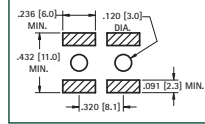
- Low Profile



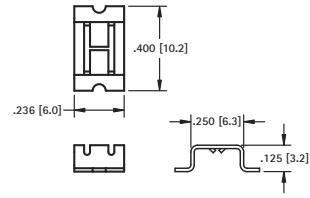
#### Mounting Detail For Two Clips



#### Pad Layout For Two Clips



### AVAILABLE ON TAPE AND REEL



#### Surface Mount



- Low Profile

CAT. NO. 3583 (Bulk)

CAT. NO. 3583KTR (Tape & Reel)

Tape & Reel Spec's: 24mm wide; 12mm pitch; 13 inch reel (1500 pieces per reel)

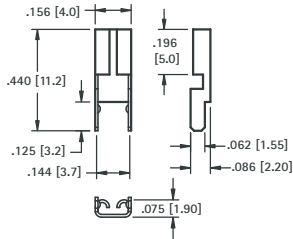
CAT. NO. 3564

### SPECIFICATIONS

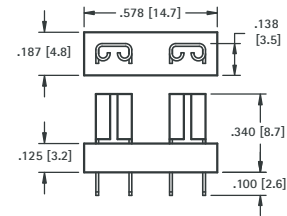
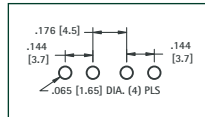
Material: .012 (.30) Brass

Insulator: Glass filled Nylon, UL Rated 94V-0

UL Temperature Rating: -58°F to +292°F (-50°C to +145°C)



#### Mounting Detail For Two Clips



CAT. NO. 3544 Tin-Nickel Plate UL Current Rating: 30 Amps @ 500V AC

UL Current Rating: 20 Amps @ 500V AC CAT. NO. 3544-2 Tin Plate

### LOW PROFILE MINI FUSE HOLDER

For Littelfuse Low Profile Mini (LP) series or equivalent

- Low insertion force
- Thru hole PC mountable, maintains position during wave soldering
- Fuse holder fully insulates clips to protect fuse from shorting
- Holder assures proper spacing and reduces assembly time

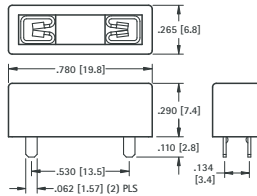
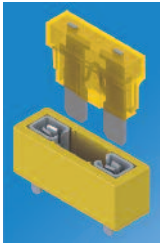
### SPECIFICATIONS

Contacts: .016 (.41) Brass, Tin-Nickel Plate

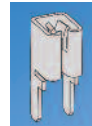
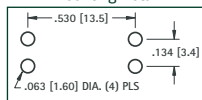
Insulator: Nylon 4/6, UL Rated 94V-0

UL Current Rating: 30 Amps @ 500V AC

UL Temperature Rating: -58°F to +292°F (-50°C to +145°C)

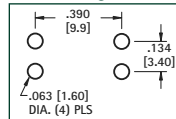


#### Mounting Detail



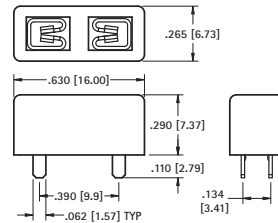
Refer to page 45 for Cat. No. 3557 Clip details

#### Mounting Detail



### MINI FUSE HOLDER

For Littelfuse Mini 297 or 997 series/Bussmann ATM or equivalents



CAT. NO.	COLOR	FUSE REF.
3557-2	Black	-
3557-10	Red	10 Amp
3557-15	Blue	15 Amp
3557-20	Yellow	20 Amp

All colors UL rated for 30 Amp.

CAT. NO.	COLOR	FUSE REF.
3568	Black	-
3568-10	Red	10 Amp
3568-15	Blue	15 Amp
3568-20	Yellow	20 Amp

All colors UL rated for 30 Amp.

### HORIZONTAL FUSE ENTRY

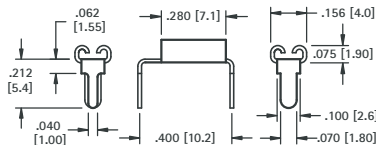
For Littelfuse Mini 297 or 997 series/Bussmann ATM series or equivalent

### SPECIFICATIONS

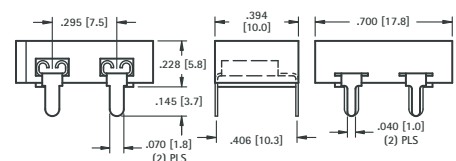
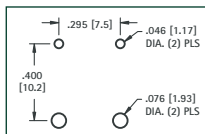
Contacts: .012 (.30) Brass

Insulator: Nylon 6/6, UL Rated 94V-0

UL Temperature Rating: -58°F to +292°F (-50°C to +145°C)



#### Mounting Detail For Two Clips



CAT. NO. 3549 Nickel Plate UL Current Rating: 30 Amps @ 500V AC

UL Current Rating: 20 Amps @ 500V AC CAT. NO. 3549-2 Tin Plate

# SMT "AUTO" BLADE FUSE HOLDERS



- Compatible with most vacuum and mechanical pick and place assembly systems
- Fully insulated clips to protect fuses against shorting
- One piece assembly reduces assembly time
- Withstands shock and vibration

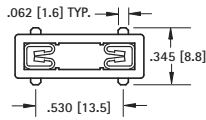
## SPECIFICATIONS

**Contacts:** .016 (.41) Brass, Matte Tin Plate  
**Insulator:** High Temperature Nylon 46, UL 94V-0  
**UL Temperature Rating:** -58°F to +292°F (-50°C to +145°C)  
**UL Current Rating:** 20 Amps @ 500V AC

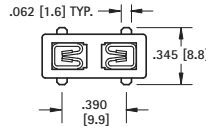
AVAILABLE ON TAPE AND REEL



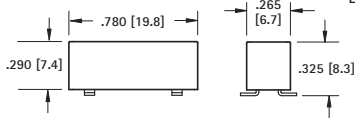
### 2 in 1 FUSE HOLDER



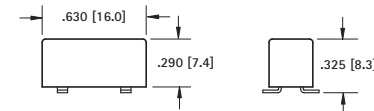
### MINI FUSE HOLDER



**For Standard:** Littelfuse: ATOF series/ Bussmann ATC series.



**For Low Profile:** Littelfuse: 891 series/ Bussmann ATM-LP series



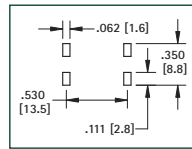
**For Mini:** Littelfuse: MIN series/Bussmann ATM series or equivalent

CAT. NO. BULK	ON TAPE & REEL	COLOR	FUSE REF.
3587	3587TR	Black	-
3587-10	3587-10TR	Red	10 Amp
3587-15	3587-15TR	Blue	15 Amp
3587-20	3587-20TR	Yellow	20 Amp

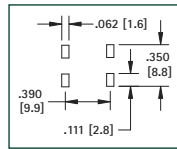
All colors UL rated for 20 Amp.

**Tape & Reel Spec's:** 32mm wide, 16mm pitch, 13 inch reel (500 pieces per reel)

#### Mounting Detail



#### Mounting Detail



CAT. NO. BULK	ON TAPE & REEL	COLOR	FUSE REF.
3588	3588TR	Black	-
3588-10	3588-10TR	Red	10 Amp
3588-15	3588-15TR	Blue	15 Amp
3588-20	3588-20TR	Yellow	20 Amp

All colors UL rated for 20 Amp.

**Tape & Reel Spec's:** 32mm wide, 16mm pitch, 13 inch reel (500 pieces per reel)

# SMT "AUTO" BLADE FUSE CLIPS



- Compatible with most vacuum and mechanical pick and place assembly systems
- KTR parts have Kapton Tape added to top service for vacuum pick & place

- Accepts Standard and Mini blade Automotive blade fuses
- Clip with Matte-Tin plate is ideal for low temperature soldering applications, for other temperature sensitive components

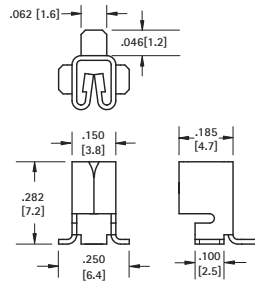
- Clips with Tin-Nickel plate are ideal for lead free, high temperature soldering applications

AVAILABLE ON TAPE AND REEL

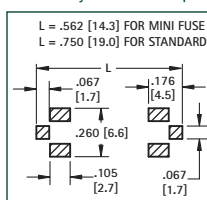
### VERTICAL ENTRY



**For Mini:** Littelfuse: MIN series/Bussmann ATM series.  
**For Standard:** Littelfuse: ATOF series/Bussmann ATC series.  
**For Low Profile:** Littelfuse: 891 series/Bussmann ATM-LP series



#### Pad Layout For Two Clips



#### SPECIFICATIONS

**Material:** .016 (.41) Brass, Tin-Nickel Plate  
**UL Current Rating:** 30 Amps @ 500V AC

**CAT. NO. 3586** (Bulk)

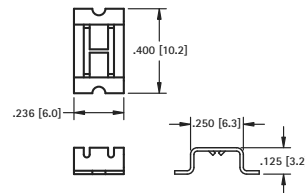
**CAT. NO. 3586KTR** (Tape & Reel)

**Tape & Reel Spec's:** 16mm wide, 12mm pitch, 13 inch reel (750 pieces per reel)

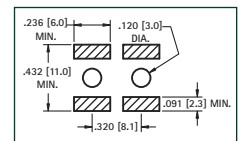
### VERTICAL ENTRY



**For Mini:** Littelfuse: MIN series/Bussmann ATM series or equivalent



#### Pad Layout For Two Clips



#### SPECIFICATIONS

**Material:** .016 (.41) Brass, Matte Tin Plate  
**UL Current Rating:** 15 Amps @ 500V AC

**CAT. NO. 3583**

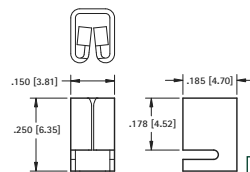
**CAT. NO. 3583KTR** (Tape & Reel)

**Tape & Reel Spec's:** 24mm wide, 12mm pitch, 13 inch reel (1500 pieces per reel)

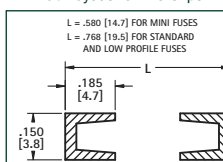
### VERTICAL ENTRY



**For Mini:** Littelfuse: MIN series/Bussmann ATM series.  
**For Standard:** Littelfuse: ATOF series/Bussmann ATC series.  
**For Low Profile:** Littelfuse: 891 series/Bussmann ATM-LP series



#### Pad Layout For Two Clips



#### SPECIFICATIONS

**Material:** .018 (.41) Brass, Tin-Nickel Plate  
**UL Current Rating:** 30 Amps @ 500V AC

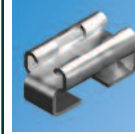
**CAT. NO. 3584\*** (Bulk)

**CAT. NO. 3584KTR\*** (Tape & Reel)

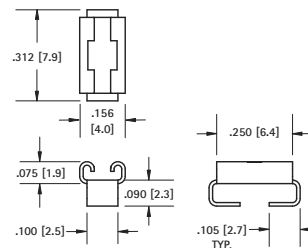
**Tape & Reel Spec's:** 16mm wide, 12mm pitch, 13 inch reel (750 pieces per reel)

\* Cat. No. 3584 is not UL Listed

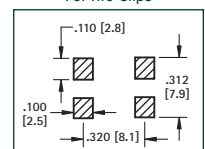
### HORIZONTAL ENTRY



**For Mini:** Littelfuse: MIN series/Bussmann ATM series or equivalent



#### Mounting Detail For Two Clips



#### SPECIFICATIONS

**Material:** .012 (.30) Brass, Matte Tin Plate  
**UL Current Rating:** 20 Amps @ 500V AC

**CAT. NO. 3569** (Bulk)

**CAT. NO. 3569TR** (Tape & Reel)

**Tape & Reel Spec's:** 24mm wide, 8mm pitch, 13 inch reel (1000 pieces per reel)