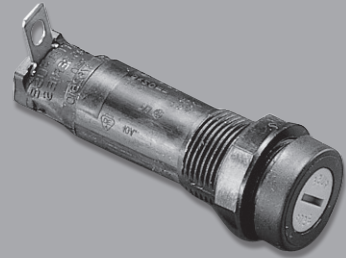




Expertise Applied | Answers Delivered



FUSEHOLDER SELECTION






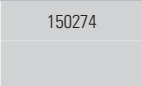
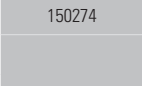
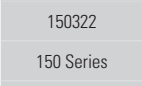




Fuseholder Selection Guide


A guide to selecting Littelfuse Fuseholder components for electronic applications.

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FUSEHOLDER SELECTION GUIDE www.littelfuse.com/fuseholders

| Circuit Connection Method | | Wire | Wire Connector Terminals | TH= Thru-Hole Solder SM= Surface Mount Solder ST= Screw Terminal CT= Wire Connector Terminal RS= Rivet/Screw Hole | | | | | | | |
|----------------------------|---|---|---|--|---|---|------------------|---------------|------------|---------------------|-----------------|
| Fuse Holder Type | | In-Line Fuse Holders | Panel Mount Fuse Enclosure | Circuit Board Mount Fuse Enclosure | | Fuse Blocks | | Fuse Clips | | | |
| Fuse Type | Fuse Series |  |  |  |  |  | | | | | |
| 4.5x14.5 mm (2AG) | 225 229 |  | 150274 | 245001 Solder QC | | TH | 254101 | TH | 111501 | | |
| | | | | 245002 NEMA QC | | TH | 254121 | SM | 111505 | | |
| | | | | 286377 Flip Top | | CT | Other 254 Series | TH | 111506 | | |
| | | | | 345 Series Int. Shock-Safe (old) | | | | | | | |
| | | | | 3452 Series Int. Shock-Safe | | | | | | | |
| 5x20 mm | 213 215 216 217 218 219XA 232 233 234 235 239 |  | 150274 | 3455 Int. Shock-Safe | TH | 345121 Shocksafe | TH | 520 101 | TH | 04450001 / 00300210 | |
| | | | | 345121 Int. Shock-Safe | TH | 646 / 649 / 656 Series | CT | 520 003 - 005 | TH | 05200001 | |
| | | | | 286677 Flip Top | TH | 810 / 811 / 814 Series | CT | 647 Series | TH | 51800001009 | |
| | | | | 800 / 801 / 802 / 821 Series | TH | 830 / 831 / 834 Series | SM | 658 Series | TH | 51900001009 | |
| | | | | 820/820 - 20 Series Mini Shocksafe | TH | 852 / 853 / 862 Series | | | TH | 52000001009 | |
| | | | | 823 Series Snap-in | TH | OPTF Series | | | TH | 52100001009 | |
| | | | | 824/824-20 / 850 / 851 / 860 series | | | | | TH | 100 / 111 Series | |
| | | | | 870 Series Medical Grade | | | | | TH | 523 / 445 Series | |
| 6.3x32 mm (3AB/3AG) | 312 313 314 322 326 |  | 150322 | 342006 Watertight | TH | 345101 Shocksafe | CT | 354 Series | RS | 101001 / 101002 | |
| | | | | 150 Series | 342021 (FHN26W) Water Tight | TH | 354101-GY | ST | 356 Series | RS | 101003 / 102064 |
| | | | | 155 Series | 342024 (FHN26G2) Drip Proof | TH | 810 Series | ST | 359 Series | TH | 102071 / 102074 |
| | | | | LHFB Series | 342025 (FHN20G) Drip Proof | TH | 811 Series | | | TH | 102076 / 102078 |
| | | | | | 346877 Flip Top | TH | 814 Series | | | TH | 102079 / 102080 |
| | | | | | 340 Series RF Shielded / Watertight | TH | 862 Series | | | RS | 121001 / 121002 |
| | | | | | 342 Series Traditional | | | | | RS | 121004 |
| | | | | | 344 Series Snap / Panel Mount | | | | | TH | 100058 / 122083 |
| | | | | | 345 Series Int. Shocksafe (old) | | | | | TH | 122087 / 122088 |
| | | | | | 3453 Series Int. Shocksafe | | | | | TH | 122090 / 122093 |
| | | | | | 348 Series Snap Mount | | | | | TH | 10207101009 |
| | | | | | 800 Series Shocksafe | | | | | TH | 51800001009 |
| | | | | | 801 / 802 / 803-01 Series | | | | | | |
| | | | | | 860 Series | | | | | | |
| TE5®/ TR5® | 369 / 370 372 / 373 374 / 382 383 / 385 391 / 392 395 / 396 397 / 398 399 / 400 808 |  | 570 Series | | TH | 571 0000 000 | | | | | |
| | | | | | TH | 559 / 560 / 562 Series | | | | | |
| | | | | | SM | 564 Series | | | | | |
| | | | | | TH | 576 Series | | | | | |
| Micro™/ TR3® | 262 / 268 269 / 272 273 / 274 278 / 279 |  | 282001 Front mt. Neoprene | TH | 281005 Vertical Silver | | | | | | |
| | | | 282007 Front mt. Conductive | TH | 281007 Horizontal Silver | | | | | | |
| | | | 282002 Rear mt. Neoprene | TH | 281008 Vertical Tin | | | | | | |
| | | | 282008 Rear mt. Conductive | TH | 281010 Horizontal Tin | | | | | | |
| | | | 280004 32V indicating | | | | | | | | |


4.5mm x 14.5mm (2AG) Size Fuse Series and Holder Options



| Fuse Options | | | | | | | | | | | | | | | | | | | | |
|------------------|---------------------|-------------|------------------|----------|---|----------------------------------|---|-----------------------------|--------------------|-----|-----|----|------|-----|-----|-------|-----|---|----------------|-----------|
| Fuse Series Name | Time Lag (Slo-Blo®) | | | | Device Range * (Operating Current Options in Amps) | Max. Voltage Rating * (Volts) | Interrupting Rating at Max Voltage Rating * (Amps) | Operating Temperature Range | Agency Approvals * | | | | | | | | | | RohS Compliant | Lead Free |
| | Medium Acting | Fast Acting | Very Fast Acting | Americas | | | | | Europe | | | | Asia | | | | | | | |
| | | | | UL | | | | | UR | CSA | OPL | CE | VDE | TUV | BSI | Semko | PSE | K | | |
| 225 | | | | | 0.1 - 10 | 250 / 125 | 35 - 500 | | • | • | • | • | | • | | | | • | • | |
| 230 | • | | | | 0.25 - 7 | 250 / 125 | 35 - 400 | | • | • | • | | | • | | | | • | • | |

| Holder Options | | | | | | | | | | | | | |
|---------------------------|-----------------------|----------------------------------|--|-------------|------------------|--|--|------------|----|--------|--|--|--|
| Circuit Connection Method | Wire | Wire Connector Terminals | TH= Thru-Hole Solder SM= Surface Mount Solder ST= Screw Terminal CT= Wire Connector Terminal RS= Rivet/Screw Hole | | | | | | | | | | |
| Fuse Holder Type | In- Line Fuse Holders | Panel Mount Fuse Enclosure | Circuit Board Mount Fuse Enclosure | Fuse Blocks | | | | Fuse Clips | | | | | |
| | 150274 | 245001 Solder QC | | TH | 254101 | | | | TH | 111501 | | | |
| | | 245002 NEMA QC | | TH | 254121 | | | | SM | 111505 | | | |
| | | 286377 Flip Top | | CT | Other 254 Series | | | | TH | 111506 | | | |
| | | 345 Series Int. Shock-Safe (old) | | | | | | | | | | | |
| | | 3452 Series Int. Shock-Safe | | | | | | | | | | | |


5mm x 20mm Size Fuse Series and Holder Options



| Fuse Options | | | | | | | | | | | | | | | | | | | | |
|------------------|---------------------|-------------|------------------|----------|---|----------------------------------|---|-----------------------------|--------------------|-----|-----|----|------|-----|-----|-------|-----|---|----------------|-----------|
| Fuse Series Name | Time Lag (Slo-Blo®) | | | | Device Range * (Operating Current Options in Amps) | Max. Voltage Rating * (Volts) | Interrupting Rating at Max Voltage Rating * (Amps) | Operating Temperature Range | Agency Approvals * | | | | | | | | | | RohS Compliant | Lead Free |
| | Medium Acting | Fast Acting | Very Fast Acting | Americas | | | | | Europe | | | | Asia | | | | | | | |
| | | | | UL | | | | | UR | CSA | OPL | CE | VDE | TUV | BSI | Semko | PSE | K | | |
| 213 | • | | | | 0.2 - 6.3 | 250 | 35 - 63 | -55°C to +125°C | • | • | • | | • | • | • | • | • | • | • | |
| 215 | • | | | | 0.125 - 25 | 250 | 300 - 1500 | | • | • | | | • | • | • | • | • | • | • | |
| 216 | | • | | | 0.05 - 16 | 250 | 750 - 1500 | | • | • | | | • | • | • | • | • | • | • | |
| 217 | | | • | | 0.032 - 15 | 250 | 35 - 150 | | • | • | | | • | • | • | • | • | • | • | |
| 218 | • | | | | 0.032 - 16 | 250 | 35 - 100 | | • | • | | | • | • | • | • | • | • | • | |
| 219XA | • | | | | 0.4 - 6.3 | 250 | 150 | | • | • | | | • | • | • | • | • | • | • | |
| 232 | | • | | | 1 - 10 | 250 / 125 | 300 / 10,000 | | | | | | | | • | • | | | • | |
| 233 | | • | | | 1 - 10 | 125 | 10,000 | | • | • | | | | | • | • | | | • | |
| 234 | | • | | | 1 - 10 | 250 | 100 - 200 | | • | • | | | | | • | • | | | • | |
| 235 | | | • | | 0.1 - 7 | 250 / 125 | 35 - 10,000 | | • | • | | | | | • | • | | | • | |
| 239 | • | | | | 0.08 - 7 | 250 / 125 | 35 - 10,000 | | • | • | | | | | • | • | | | • | |

| Holder Options | | | | | | | | | | | | | |
|---------------------------|-----------------------|-------------------------------------|--|-------------|---------------|--|--|------------|----|---------------------|--|--|--|
| Circuit Connection Method | Wire | Wire Connector Terminals | TH= Thru-Hole Solder SM= Surface Mount Solder ST= Screw Terminal CT= Wire Connector Terminal RS= Rivet/Screw Hole | | | | | | | | | | |
| Fuse Holder Type | In- Line Fuse Holders | Panel Mount Fuse Enclosure | Circuit Board Mount Fuse Enclosure | Fuse Blocks | | | | Fuse Clips | | | | | |
| | 150274 | 3455 Int. Shock-Safe | TH 345121 Shocksafe | TH | 520 101 | | | | TH | 04450001 / 00300210 | | | |
| | | 345121 Int. Shock-Safe | TH 646 / 649 / 656 Series | CT | 520 003 - 005 | | | | TH | 05200001 | | | |
| | | 286677 Flip Top | TH 810 / 811 / 814 Series | CT | 647 Series | | | | TH | 51800001009 | | | |
| | | 800 / 801 / 802 / 821 Series | TH 830 / 831 / 834 Series | SM | 658 Series | | | | TH | 51900001009 | | | |
| | | 820/820 - 20 Series Mini Shocksafe | TH 852 / 853 / 862 Series | | | | | | TH | 52000001009 | | | |
| | | 823 Series Snap-in | TH OPTF Series | | | | | | TH | 52100001009 | | | |
| | | 824/824-20 / 850 / 851 / 860 series | | | | | | | TH | 100 / 111 Series | | | |
| | | 870 Series Medical Grade | | | | | | | TH | 523 / 445 Series | | | |

6.3mm X 32mm (3AB / 3AG) Size Fuse Series and Holder Options



| Fuse Options | | | | | | | | | | | | | | | | | | | | | | | |
|---------------------------|-----------------------|---------------|-------------------------------------|------------------|--|----------------------------------|---|-----------------------------|--------------------|----|-----|-----------------|--------|-----|-----|-----|-------|-----|----------------|-----------|---|-----|-----|
| Fuse Series Name | Time Lag (Slo-Blo®) | Medium Acting | Fast Acting | Very Fast Acting | Device Range * (Operating Current Options in Amps) | Max. Voltage Rating * (Volts) | Interrupting Rating at Max Voltage Rating * (Amps) | Operating Temperature Range | Agency Approvals * | | | | | | | | | | | | | | |
| | | | | | | | | | Americas | | | | Europe | | | | Asia | | RoHS Compliant | Lead Free | | | |
| | | | | | | | | | UL | UR | CSA | OPL | CE | VDE | TUV | BSI | Semko | PSE | | | K | CCC | CCC |
| 312 | | | • | | 0.01 - 35 | 250 / 125 / 32 | 35 - 300 | -55°C to +125°C | • | • | • | • | • | • | • | • | • | • | • | • | • | | |
| 313 | • | | | | 0.01 - 30 | 250 / 125 / 32 | 35 - 300 | | • | • | • | • | • | • | • | • | • | • | • | • | • | • | |
| 314 | | | • | | 0.125 - 40 | 250 | 35 - 1000 | | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • |
| 322 | | | | • | 1 - 30 | 250 / 65 | 100 - 1000 | | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • |
| 326 | • | | | | 0.01 - 30 | 250 / 125 | 100 - 600 | | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • |
| Holder Options | | | | | | | | | | | | | | | | | | | | | | | |
| Circuit Connection Method | Wire | | Wire Connector Terminals | | TH= Thru-Hole Solder SM= Surface Mount Solder ST= Screw Terminal CT= Wire Connector Terminal RS= Rivet/Screw Hole | | | | | | | | | | | | | | | | | | |
| Fuse Holder Type | In- Line Fuse Holders | | Panel Mount Fuse Enclosure | | Circuit Board Mount Fuse Enclosure | | Fuse Blocks | | Fuse Clips | | | | | | | | | | | | | | |
| | 150322 | | 342006 Watertight | | TH | 345101 Shocksafe | | CT | 354 Series | | RS | 101001 / 101002 | | | | | | | | | | | |
| | 150 Series | | 342021 (FHN26W) Water Tight | | TH | 354101-GY | | ST | 356 Series | | RS | 101003 / 102064 | | | | | | | | | | | |
| | 155 Series | | 342024 (FHN26G2) Drip Proof | | TH | 810 Series | | ST | 359 Series | | TH | 102071 / 102074 | | | | | | | | | | | |
| | LHFB Series | | 342025 (FHN20G) Drip Proof | | TH | 811 Series | | | | | TH | 102076 / 102078 | | | | | | | | | | | |
| | | | 346877 Flip Top | | TH | 814 Series | | | | | TH | 102079 / 102080 | | | | | | | | | | | |
| | | | 340 Series RF Shielded / Watertight | | TH | 862 Series | | | | | RS | 121001 / 121002 | | | | | | | | | | | |
| | | | 342 Series Traditional | | | | | | | | RS | 121004 | | | | | | | | | | | |
| | | | 344 Series Snap / Panel Mount | | | | | | | | TH | 100058 / 122083 | | | | | | | | | | | |
| | | | 345 Series Int. Shocksafe (old) | | | | | | | | TH | 122087 / 122088 | | | | | | | | | | | |
| | | | 3453 Series Int. Shocksafe | | | | | | | | TH | 122090 / 122093 | | | | | | | | | | | |
| | | | 348 Series Snap Mount | | | | | | | | TH | 10207101009 | | | | | | | | | | | |
| | | | 800 Series Shocksafe | | | | | | | | TH | 51800001009 | | | | | | | | | | | |
| | | | 801 / 802 / 803-01 Series | | | | | | | | | | | | | | | | | | | | |
| | | | 860 Series | | | | | | | | | | | | | | | | | | | | |

Fuseholder Re-Rating

For 25°C ambient temperatures, it is recommended that fuseholders be operated at no more than 60% of the nominal current rating established using the controlled test conditions specified by Underwriters Laboratories.

The primary objective of these UL test conditions is to specify common test standards necessary for the continued control of manufactured items intended for protection against fire, etc. A copper dummy fuse is inserted in the fuseholder by Underwriters Laboratories, and then the current is increased until a certain temperature rise occurs.



The majority of the heat is produced by the contact resistance of the fuseholder clips. This value of current is considered to be the rated current of the fuseholder, expressed as 100% of rating.

Some of the more common, everyday applications may differ from these UL test conditions as follows: fully enclosed fuseholders, high contact resistance, air movement, transient spikes, and changes in connecting cable size (diameter and length).

Even small variations from the controlled test conditions can greatly affect the ratings of the fuseholder. For this reason, **it is recommended that fuseholders be de-rated by 40% (operated at no more than 60% of the nominal current rating)** established using the Underwriter Laboratories test conditions).

* In some cases for these categories the ratings, agency approvals and specifications vary by part number and are presented here as ranges representing the whole series.

TE5®/TR5® Type Fuse Series and Holder Options

| | Fuse Options | | | | | | | | | | | | | | | | | | | | | | | |
|---|------------------|----------------------------|---------------|-------------|------------------|--|----------------------------------|---|-----------------------------|--------------------|----|-----|-----|--------|-----|-----|-----|-------|----------------|-----------|-----|---|-----|-----|
| | Fuse Series Name | Time Lag (Slo-Blo®) | Medium Acting | Fast Acting | Very Fast Acting | Device Range * (Operating Current Options in Amps) | Max. Voltage Rating * (Volts) | Interrupting Rating at Max Voltage Rating * (Amps) | Operating Temperature Range | Agency Approvals * | | | | | | | | | RoHS Compliant | Lead Free | | | | |
| | | | | | | | | | | Americas | | | | Europe | | | | Asia | | | | | | |
| | | | | | | | | | | UL | UR | CSA | OPL | CE | VDE | TUV | BSI | Semko | | | PSE | K | CCC | CCC |
|  | 370 | | | • | | 0.4 - 6.3 | 250 | 35 - 50 | -40°C to +85°C | | • | | | | | | | | | • | • | | | |
| | 372 | • | | | | 0.4 - 6.3 | 250 | 35 - 50 | | | • | | | | | | | | | | • | • | | |
| | 373 | | | • | | 0.5 - 10 | 250 | 50 | | | • | | | | | | | | | | • | • | | |
| | 374 | • | | | | 0.5 - 10 | 250 | 50 | | | • | | • | | | | | | | | | • | • | |
| | 382 | • | | | | 1 - 10 | 250 | 100 | | | | • | | | | | | | | | | • | • | |
| | 383 | • | | | | 1 - 10 | 300 | 50 - 100 | | | | • | | | | | | | | | | | • | • |
|  | 369 | • | | | | 1 - 6.3 | 300 | 50 | -40°C to +85°C | | • | | | | | | | | | | • | • | | |
| | 385 | • | | | | 0.35 - 1.5 | 125 | 50 | | | • | | | | | | | | | | | • | • | |
| | 391 | | | • | | 0.125 - 4 | 65 | 50 | | | • | | | | | | | | | | | • | • | |
| | 392 | • | | | | 0.8 - 6.3 | 250 | 25 - 63 | | | | • | | | | | | | | | | | • | • |
| | 395 | • | | | • | 0.05 - 6.3 | 125 | 100 | | | | | | | | | | | | | | | • | • |
| | 396 | • | | | | 0.05 - 6.3 | 125 | 100 | | | | | | | | | | | | | | | • | • |
| | 397 | • | | | | 0.35 - 1.5 | 125 | 50 | | | | | | | | | | | | | | | • | • |
| | 398 | | • | | | 0.125 - 4 | 65 | 50 | | | | • | | | | | | | | | | | • | • |
| | 399 | • | | | | 0.125 - 4 | 65 | 50 | | | | • | | | | | | | | | | | • | • |
| | 400 | • | | | | 0.5 - 6.3 | 250 | 130 | | | | | • | | | | | | | | | | • | • |
| | 808 | | | | • | 1 - 5 | 250 | 100 | | | | • | | | | | | | | | | | • | • |
| | Holder Options | | | | | | | | | | | | | | | | | | | | | | | |
| Circuit Connection Method | | Wire Connector Terminals | | | | TH= Thru-Hole Solder SM= Surface Mount Solder ST= Screw Terminal CT= Wire Connector Terminal RS= Rivet/Screw Hole | | | | | | | | | | | | | | | | | | |
| Fuse Holder Type | | Panel Mount Fuse Enclosure | | | | Circuit Board Mount Fuse Enclosure | | | | | | | | | | | | | | | | | | |
| | | 570 Series | | | | TH | 571 0000 000 | | | | | | | | | | | | | | | | | |
| | | | | | | TH | 559 / 560 / 562 Series | | | | | | | | | | | | | | | | | |
| | | | | | | SM | 564 Series | | | | | | | | | | | | | | | | | |
| | | | | | | TH | 576 Series | | | | | | | | | | | | | | | | | |

Micro™/TR3® Type Fuse Series and Holder Options

| | Fuse Options | | | | | | | | | | | | | | | | | | | | | | |
|---|------------------|-----------------------------|---------------|-------------|------------------|--|----------------------------------|---|-----------------------------|--------------------|----|-----|-----|--------|-----|-----|-----|-------|----------------|-----------|-----|---|-----|
| | Fuse Series Name | Time Lag (Slo-Blo®) | Medium Acting | Fast Acting | Very Fast Acting | Device Range * (Operating Current Options in Amps) | Max. Voltage Rating * (Volts) | Interrupting Rating at Max Voltage Rating * (Amps) | Operating Temperature Range | Agency Approvals * | | | | | | | | | RoHS Compliant | Lead Free | | | |
| | | | | | | | | | | Americas | | | | Europe | | | | Asia | | | | | |
| | | | | | | | | | | UL | UR | CSA | OPL | CE | VDE | TUV | BSI | Semko | | | PSE | K | CCC |
|  | 262 / 268 / 269 | | | | • | 0.002 - 5 | 125 | 10,000 | -55°C to +125°C | | • | • | • | | | | | | | | | | |
| | 272 / 278 | | | | • | 0.002 - 5 | 125 | 10,000 | -55°C to +125°C | | • | • | • | | | | | | | | | | |
| | 273 / 274 / 279 | | | | • | 0.002 - 5 | 125 | 10,000 | -55°C to +85°C | | | | | | | | | | | | | | |
| Holder Options | | | | | | | | | | | | | | | | | | | | | | | |
| Circuit Connection Method | | Wire Connector Terminals | | | | TH= Thru-Hole Solder SM= Surface Mount Solder ST= Screw Terminal CT= Wire Connector Terminal RS= Rivet/Screw Hole | | | | | | | | | | | | | | | | | |
| Fuse Holder Type | | Panel Mount Fuse Enclosure | | | | Circuit Board Mount Fuse Enclosure | | | | | | | | | | | | | | | | | |
| | | 282001 Front mt. Neoprene | | | | TH | 281005 Vertical Silver | | | | | | | | | | | | | | | | |
| | | 282007 Front mt. Conductive | | | | TH | 281007 Horizontal Silver | | | | | | | | | | | | | | | | |
| | | 282002 Rear mt. Neoprene | | | | TH | 281008 Vertical Tin | | | | | | | | | | | | | | | | |
| | | 282008 Rear mt. Conductive | | | | TH | 281010 Horizontal Tin | | | | | | | | | | | | | | | | |
| | | 280004 32V indicating | | | | | | | | | | | | | | | | | | | | | |

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Littelfuse offers technologies that protect electronic and electrical circuits and their users against electrostatic discharge (ESD), load switching surges, lightning strike effects, overloads, short circuits, power faults, ground faults and other threats.

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Fuses Littelfuse offers the world's broadest range of fuse types and ratings, including cartridge, leaded, surface mount and thin film designs

PTCs Positive Temperature Coefficient thermistor technology provides resettable current-limiting protection

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GDTs Gas Discharge Tubes (GDTs) to dissipate transient voltage through a contained plasma gas

Thyristors Solid state switches that control the flow of current in a wide range of appliances, tools and equipment

SIDACtor® Devices Overvoltage protection specifically designed for legacy telecom and today's broadband connections

TVS Diodes Silicon Transient Voltage Suppression (TVS) devices

SPAs Silicon Protection Arrays designed for analog and digital signal line protection

PulseGuard® ESD Suppressors Small, fast-acting Electrostatic Discharge (ESD) suppressors

Special Application Products:

PLED LED Protectors LED string reliability devices that offer open LED bypass, ESD protection and reverse connection protection

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