



Expertise Applied | Answers Delivered

## PulseGuard® SMD ESD Suppressors

ESD suppressor provides protection for electronic devices against the threat of electrostatic discharge (ESD). Employing a voltage variable material to switch between high resistance and low resistance states, shunting ESD transients away from sensitive circuitry in applications like USB, IEEE1394, HDMI and DVI. PulseGuard suppressor complies with ESD specification IEC 61000-4-2.

### 0402 — PGB1 Series

**Specifications:** • Continuous Operating Voltage: 12VDC maximum • Clamping Voltage (1): 250V typical • Peak Trigger Voltage (2): 1,000V typical • Capacitance: 0.04pF (test frequency 250MHz) • Leakage Current: <1nA (12VDC test voltage) • Operating Temperature Range: -65°C - 125°C • ESD Pulse Withstand: 1,000 pulses minimum

### 0402 — PGB2 Series

**Specifications:** • Continuous Operating Voltage: 12VDC maximum • Clamping Voltage (1): 40V typical • Trigger Voltage (2): 250V typical • Capacitance: 0.07pF (test frequency 250MHz) • Leakage Current: <1nA (12VDC test voltage) • Operating Temperature Range: -65°C - 125°C • ESD Pulse Withstand: 1,000 pulses minimum

### 0603 — PGB1 Series

**Specifications:** • Continuous Operating Voltage: 24VDC, maximum • Clamping Voltage (1): 150V typical • Peak Trigger Voltage (2): 500V typical • Capacitance: 0.06pF (test frequency 250MHz) • Leakage Current: <1nA (6VDC test voltage) • Operating Temperature Range: -65°C - 125°C • ESD Pulse Withstand: 1,000 pulses minimum

### SOT-23 — PGB1 Series

**Specifications:** • Continuous Operating Voltage: 24VDC, maximum • Clamping Voltage (1): 150V typical • Peak Trigger Voltage (2): 500V typical • Capacitance: 0.12pF (test frequency 250MHz) • Leakage Current: <1nA (6VDC test voltage) • Operating Temperature Range: -65°C - 125°C • ESD Pulse Withstand: 1,000 pulses minimum

**Notes:** (1): IEC61000-4-2 8kV contact discharge after 25ns, (2): Measured per IEC 61000-4-2 8kV contact discharge

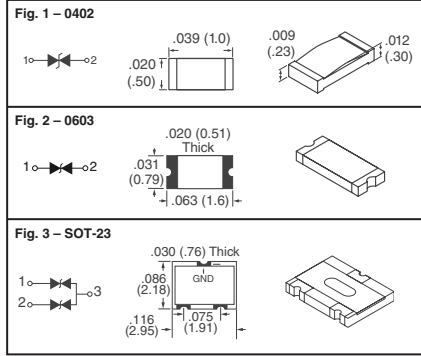


Fig.	Digi-Key Part No.	Cut Tape Price Each	Tape and Reel Qty.	Reel Pricing	Littelfuse Part No.
<b>PGB1 Series</b>					
1	F2862CT-ND	.58 .46	10,000	140.95/M	PGB1010402KR
2	F2594CT-ND	.59 .48	1,000	184.18	PGB1010603MR
3	F2596CT-ND	.69 .63	3,000	250.14/M	PGB1025T23WR
<b>PGB2 Series — Halogen Free</b>					
1	F3268CT-ND	.31 .29	10,000	140.95/M	PGB2010402KRHF

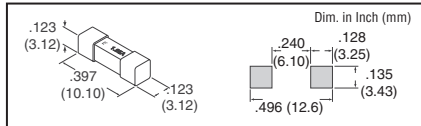
† For Tape and Reel part number change CT-ND to TR-ND.

## TeleLink® SMD Fuses 0461 Series

Surface mount overcurrent protection from power cross and allows compliance with lightning surges. Meets UL 60950 3rd Edition (formerly UL1459) power cross requirements stand alone. Designed to allow compliance with Bellcore/Telcordia GR-1089-CORE and TIA-968-A surge specifications.

**Specifications:** • Voltage Ratings: 600V • Operating Temperature Range: -55°C - 125°C • Materials: Body: Ceramic; Terminations: Silver Plated Brass Caps • Packaging Specifications: 24mm Tape and Reel per EIA-RS481 (IEC 286 part 3); 2,500 fuses per reel

**Note:** See data sheet for detailed Amperage Safety Approvals.



Amp Rate	Digi-Key Part No.	Cut Tape Price Each	Digi-Key Part No.	Tape & Reel Pricing
<b>0461 Series</b>				
.500	F1449CT-ND	1.52 1.41 1.18	F1449TR-ND	556.23/M
1.25	F1550CT-ND	1.52 1.41 1.18	F1550TR-ND	556.23/M
2.00	F1551CT-ND	1.52 1.41 1.18	F1551TR-ND	556.23/M

## TeleLink® 0461 SMD Fuse and Clip Assembly 0159 Series

**Specifications:** • Maximum Voltage Rating: 600V • Operating Temperature: -55°C - 125°C • Materials: Fuse Body: Ceramic; Fuse Caps/Terminals: Silver-plated Brass; Clip Base: Gold plated; Clip Terminals: Nickel plated

**Note:** See data sheet for detailed Amperage Safety Approvals.

Amp Rate	Digi-Key Part No.	Cut Tape Price Each	Digi-Key Part No.	Tape & Reel Pricing
<b>0159 Series</b>				
1.25	F2942CT-ND	3.19 2.94 2.47	F2942TR-ND	1231.99

## Enhanced TeleLink® Slo-Blo® SMD Fuses 0461E Series

With optimized opening times at certain overload conditions, this enhanced TeleLink® Fuse works in harmony with Littelfuse's new SIDACTor® Transient Voltage Suppressor products in the OFN package.

**Specifications:** • Voltage Ratings: 600V • Materials: Body: Ceramic; Terminations: Silver Plated Caps • Operating Temperature Range: -55°C - 125°C

**Note:** See data sheet for detailed Amperage Safety Approvals.

Amp Rate	Digi-Key Part No.	Cut Tape Price Each	Digi-Key Part No.	Tape & Reel Pricing
<b>0461E Series</b>				
1.25	F2926CT-ND	1.98 1.82 1.53	F2926TR-ND	721.89/M

## "0402" (1005) SlimLine™ SMD Thin-Film Fuses 0435 Series

**Specifications:** • Voltage Rating: 32V • Operating Temperature: -55°C - 90°C • Materials: Body: Epoxy Substrate; Terminations: Copper/Nickel/Tin-Lead Cover Coat; Conformal Coating • Interrupting Ratings: 35A @ 24V AC/DC • Packaging Specification: 8mm Paper Tape and Reel per EIA-RS481-1 (IEC 286, part 3); 10,000 per reel.

**Note:** See data sheet for detailed Amperage Safety Approvals.

Amp Rate	Digi-Key Part No.	Cut Tape Price Each	Digi-Key Part No.	Tape & Reel Pricing
<b>0435 Series — Very Fast Acting</b>				
.250	F1440CT-ND	1.00 .93 .78	F1440TR-ND	334.34/M
.375	F1441CT-ND	1.00 .93 .78	F1441TR-ND	334.34/M
.500	F1442CT-ND	1.00 .93 .78	F1442TR-ND	334.34/M
.750	F1443CT-ND	1.00 .93 .78	F1443TR-ND	334.34/M
1.00	F1444CT-ND	1.00 .93 .78	F1444TR-ND	334.34/M
1.50	F1446CT-ND	1.00 .93 .78	F1446TR-ND	334.34/M
2.00	F1448CT-ND	1.00 .93 .78	F1448TR-ND	334.34/M

## "0603" (1608) SlimLine™ SMD Thin-Film 0467 Series

SlimLine 0603 Lead Free complies with electronic industry environmental standards for lead reduction. Alloy based element construction provides superior inrush withstand characteristics (I<sup>2</sup>t) over ceramic or glass based 0603 fuse products.

**Specifications:** • Voltage Rating: 32V AC/DC • Operating Temperature: -55°C - 90°C • Construction Material: Body: Advanced High Temperature Substrate; Terminations: Copper/Nickel/100% Tin; Element Cover Coat: Conformal Coating • Interrupting Ratings: (250A - 1A) 50A @ 32V AC/DC, (1.25A - 5A) 35A @ 32V AC/DC • Tape and Reel Specifications: 8mm wide reels that are in compliance with EIA-RS481-2 (IEC 286, part 3)

**Note:** See data sheet for detailed Amperage Safety Approvals.

Amp Rate	Digi-Key Part No.	Cut Tape Price Each	Digi-Key Part No.	Tape & Reel Pricing
<b>0467 Series — Very Fast Acting</b>				
.250	F1389CT-ND	.84 .78 .65	F1389TR-ND	290.45/M
.375	F1390CT-ND	.84 .78 .65	F1390TR-ND	290.45/M
.500	F1391CT-ND	.84 .78 .65	F1391TR-ND	290.45/M

Amp Rate	Marking Code	Digi-Key Part No.	Cut Tape Price Each	Digi-Key Part No.	Tape & Reel Pricing
.750	G	F1392CT-ND	.84 .78 .65	F1392TR-ND	290.45/M
1.00	H	F1393CT-ND	.84 .78 .65	F1393TR-ND	290.45/M
1.25	J	F1394CT-ND	.84 .78 .65	F1394TR-ND	290.45/M
1.50	K	F1395CT-ND	.84 .78 .65	F1395TR-ND	290.45/M
1.75	L	F1396CT-ND	.84 .78 .65	F1396TR-ND	290.45/M
2.00	N	F1397CT-ND	.84 .78 .65	F1397TR-ND	290.45/M
2.50	O	F1398CT-ND	.84 .78 .65	F1398TR-ND	290.45/M
3.00	P	F1399CT-ND	.84 .78 .65	F1399TR-ND	290.45/M
3.50	R	F1400CT-ND	.84 .78 .65	F1400TR-ND	290.45/M
4.00	S	F1401CT-ND	.84 .78 .65	F1401TR-ND	290.45/M
5.00	T	F1402CT-ND	.84 .78 .65	F1402TR-ND	290.45/M

• 467-KIT-ND Digi-Key® 467 Series Fuse Very Fast Acting SlimLine™ Lead Free 10 each of parts indicated, plus a plastic storage box. 93.10

## "0603" (1608) SMD High Temperature Fuses 0438 Series

**Specifications:** • Maximum Voltage Rating: 32V • Operating Temperature: -55°C - 150°C

**Materials:** • Body: Advanced Ceramic; Terminations: Ag/Ni/Sn • Element Cover Coating: Lead-Free Glass

**Note:** See data sheet for detailed Amperage Safety Approvals.

Amp Rate	Digi-Key Part No.	Cut Tape Price Each	Digi-Key Part No.	Tape & Reel Pricing
<b>0438 Series — Very Fast Acting</b>				
.250	F2943CT-ND	1.01 .93 .78	F2943TR-ND	367.53/M
.375	F2944CT-ND	1.01 .93 .78	F2944TR-ND	367.53/M
.500	F2945CT-ND	1.01 .93 .78	F2945TR-ND	367.53/M
.750	F2946CT-ND	1.01 .93 .78	F2946TR-ND	367.53/M
1.00	F2947CT-ND	1.01 .93 .78	F2947TR-ND	367.53/M
1.75	F2950CT-ND	1.01 .93 .78	F2950TR-ND	367.53/M
2.00	F2951CT-ND	1.01 .93 .78	F2951TR-ND	367.53/M
2.50	F2952CT-ND	1.01 .93 .78	F2952TR-ND	367.53/M
3.00	F2953CT-ND	1.01 .93 .78	F2953TR-ND	367.53/M
3.50	F2954CT-ND	1.01 .93 .78	F2954TR-ND	367.53/M
4.00	F2955CT-ND	1.01 .93 .78	F2955TR-ND	367.53/M
5.00	F2956CT-ND	1.01 .93 .78	F2956TR-ND	367.53/M
6.00	F2957CT-ND	1.01 .93 .78	F2957TR-ND	367.53/M

## "0603" (1608) SMD Inrush Withstand Fuses 0441 Series

**Specifications:** • Maximum Voltage Rating: 32V • Operating Temperature: -55°C - 150°C

**Materials:** • Body: Advanced Ceramic; Terminations: Ag/Ni/Sn • Element Cover Coating: Lead-Free Glass

**Note:** See data sheet for detailed Amperage Safety Approvals.

Amp Rate	Digi-Key Part No.	Cut Tape Price Each	Digi-Key Part No.	Tape & Reel Pricing
<b>0441 Series — High I<sup>2</sup>t Fuses</b>				
2.00	F3531CT-ND	.98 .90 .76	F3531TR-ND	356.56/M
2.50	F3532CT-ND	.98 .90 .76	F3532TR-ND	356.56/M
3.00	F3533CT-ND	.98 .90 .76	F3533TR-ND	356.56/M
3.50	F3534CT-ND	.98 .90 .76	F3534TR-ND	356.56/M
4.00	F3535CT-ND	.98 .90 .76	F3535TR-ND	356.56/M
5.00	F3536CT-ND	.98 .90 .76	F3536TR-ND	356.56/M
6.00	F3537CT-ND	.98 .90 .76	F3537TR-ND	356.56/M

## "1206" (3216) SMD High Temperature Fuses 0437 and 0469 Series

**Specifications:** • Voltage Rating: 0437 Series: (250mA - .375mA) 125V; (500mA - 2A) 63V; (2.5A - 8A) 32V 0469 Series: (4A - 5A) 32V; (6A - 8A) 24V • Operating Temperature: -55°C - 150°C • Materials: Body: Advanced Ceramic; Terminations: Ag/Ni/Sn • Element Cover Coating: Lead-Free Glass

Amp Rate	Digi-Key Part No.	Cut Tape Price Each	Digi-Key Part No.	Tape & Reel Pricing
<b>0437 Series — Fast Acting</b>				
.250	F2877CT-ND	.80 .74 .62	F2877TR-ND	291.83/M
.375	F2878CT-ND	.80 .74 .62	F2878TR-ND	291.83/M

(Continued)

Digi-Reel® Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.

Free shipping on orders over €65! All prices in euro and include duties. (EU2011-EN) 2155