

## **INDUSTRIAL & ELECTRONIC CIRCUIT PROTECTION**

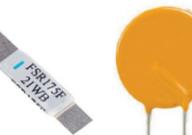
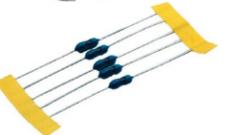
POWER | GENERATORS | LIGHTING | AIR CONDITIONING | PRINTED CIRCUIT BOARD (PCB) | PANELS  
CONTROLS | APPLIANCE | TELECOM | SOLAR POWER | WIND/HYDRO POWER | ROBOTICS

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# TABLE OF CONTENTS

<b>INDUSTRIAL POWER FUSES</b>	4-7
FUSES	
FUSE BLOCKS	
PANEL MOUNTED FUSE HOLDERS	
FUSE CLIPS	
<b>ELECTRONIC GLASS &amp; CERAMIC FUSES</b>	8-11
FUSES	
FUSE BLOCKS	
IN-LINE FUSE HOLDERS	
FUSE CLIPS	
PCB MOUNTED FUSE HOLDERS	
PANEL MOUNTED FUSE HOLDERS	
<b>TELECOM FUSES</b>	12
<b>LINE VOLTAGE CIRCUIT BREAKERS</b>	12
<b>ELECTRONIC SURFACE MOUNT (SMD) FUSES</b>	13
<b>ELECTRONIC SUBMINIATURE FUSES</b>	13
<b>ELECTRONIC MICRO FUSES</b>	14
<b>RESETTABLE FUSES (PTC)</b>	15
SURFACE MOUNT	
RADIAL LEAD	
BATTERY STRAP	
<b>COMPETITOR CROSS-REFERENCE GUIDE</b>	16-17



**CLASS RK5 AND CLASS J FUSES - TRK5-NR AND T6J SERIES**

**TRK5-NR Series**  
Class RK5 Fuses - 250VAC



Current Ratings			
10	25	45	-
12	30	50	-
15	35	60	-
20	40	-	-

**Specifications**

**Voltage Rating:** 250VAC 150VDC  
**Interrupting Rating:** 200kA 250VAC | 50kA 150VDC  
**Branch Protection**  
**Current Limiting**  
**Dual Element Time Delay**  
**Rejection Feature**

**T6J Series**  
Class J Fuses - Time Delay



Current Ratings								
1	1.5	2	2.25	2.5	3.2	3.5	4.5	
5	6	7	9	10	12	15	20	
25	30	40	50	60	70	80	100	
110	125	150	200	225	300	400	600	

**Specifications**

**Voltage Rating:** 600VAC 500VDC  
**Interrupting Rating:** 200kA 600VAC | 100kA 500 VDC  
**Main Feeder and Branch Protection**  
**Current Limiting**  
**Dual Element Time Delay**  
**Time Delay**

\*Additional ratings are available

**CLASS T FUSES - F3T AND F6T SERIES**

**F3T Series**  
Class T Fuses - 300VAC



Current Ratings								
1	10	30	50	90	150	250	450	800
2	15	35	60	100	175	300	500	1000
3	20	40	70	110	200	350	600	1200
6	25	45	80	125	225	400	700	-

**Specifications**

**Voltage Rating:** 300VAC 160VDC  
**Interrupting Rating:** 200kA 300VAC | 50kA 160VDC  
**Main Feeder and Branch Protection**  
**Current Limiting**  
**Fast Acting**

**F6T Series**  
Class T Fuses - 600VAC



Current Ratings								
1	10	30	50	90	150	250	450	800
2	15	35	60	100	175	300	500	1000
3	20	40	70	110	200	350	600	1200
6	25	45	80	125	225	400	800	-

**Specifications**

**Voltage Rating:** 600VAC 300VDC  
**Interrupting Rating:** 200kA 600VAC | 50kA 300VDC  
**Main Feeder and Branch Protection**  
**Current Limiting**  
**Fast Acting**

\*Ratings and approvals may vary by part number; the values shown represent the series range.

**CLASS CC FUSES - FPK-R AND TPK-R SERIES**

**FPK-R Series**  
Class CC Fuses - Fast Acting



Current Ratings					
1	2	3.5	6.3	10	20
1.25	2.5	4	7	12	25
1.5	3	5	8	15	30
1.6	3.15	6	9	16	-

**Specifications**

**Voltage Rating:** 600VAC 300VDC  
**Interrupting Rating:** 200kA 600VAC | 20kA 300VDC  
**Branch Protection**  
**Current Limiting**  
**Fast Acting**  
**Rejection Feature**

\*Additional ratings are available

**TPK-R Series**  
Class CC Fuses - Time Delay



Current Ratings							
0.1	0.4	0.8	1.6	3.15	6	9	16
0.2	0.5	1	2	3.5	6.3	10	20
0.25	0.6	1.25	2.5	4	7	12	25
0.3	0.7	1.5	3	5	8	15	30

**Specifications**

**Voltage Rating:** 600VAC | 300VDC (9A~30A)  
**Interrupting Rating:** 200kA 600VAC | 10kA 300VDC (9A~30A)  
**Branch Protection**  
**Current Limiting**  
**Time Delay**  
**Rejection Feature**

**MIDGET FUSES (SUPPLEMENTARY) - FPK AND TPK SERIES**

**FPK Series**  
Midget Fuses - Fast Acting



Current Ratings					
1	2	3.5	6.3	10	20
1.25	2.5	4	7	12	25
1.5	3	5	8	15	30
1.6	3.15	6	9	16	-

**Specifications**

**Voltage Rating:** 600VAC 600VDC  
**Interrupting Rating:** 100kA 600VAC | 10kA 600VDC  
**Supplementary Protection**

**TPK Series**  
Midget Fuses - Time Delay



Current Ratings							
0.5	0.8	1.6	3.15	6	9	16	
0.63	1	2	3.5	6.3	10	20	
0.7	1.25	2.5	4	7	12	25	
0.75	1.5	3	5	8	15	30	

**Specifications**

**Voltage Rating:** 500VAC  
**Interrupting Rating:** 10kA 500VAC  
**Supplementary Protection**

\*Ratings and approvals may vary by part number; the values shown represent the series range.

Industrial Power Fuses

Electronic Glass & Ceramic Fuses

Telecom Fuses / Line Voltage Circuit Breakers

Electronic SMD Fuses / Subminiature Fuses

Electronic Micro Fuses

Resettable Fuses (PTC)

Competitor Cross-Reference Guide

Industrial Power Fuses

Electronic Glass & Ceramic Fuses

Telecom Fuses / Line Voltage Circuit Breakers

Electronic SMD Fuses / Subminiature Fuses

Electronic Micro Fuses

Resettable Fuses (PTC)

Competitor Cross-Reference Guide

**CLASS T FUSES - FUSE BLOCKS**

Fuse blocks for UL Class T fuses, providing ignition protection with F3T fuses installed and featuring an ABYC/USCG-compliant insulation cover; four studs and cover breakouts enable easy installation and flexible wire access.



Model No.	Current Rating	Voltage Rating
BLT3-200	160A (110A-200A fuses)	160VDC
BLT3-400	320A (225A-400A fuses)	160VDC

**CLASS CC FUSES - BPK-R-500 FUSE BLOCKS**

UL DIN-rail-mountable fuse blocks for UL Class CC fuses, featuring Finger/Touch Safe protection and blown-fuse indicators for quick identification of failures, available in 1–3 pole versions.



Model No.	Poles	Current Rating	Voltage Rating	LED Indicator
BPK-R-501	1	30A	600VAC / 600VDC	●
BPK-R-502	2	30A	600VAC / 600VDC	●
BPK-R-503	3	30A	600VAC / 600VDC	●
BPK-R-I-501	1	30A	600VAC / 600VDC	○
BPK-R-I-502	2	30A	600VAC / 600VDC	○
BPK-R-I-503	3	30A	600VAC / 600VDC	○

○ Led Indicator

**CLASS CC FUSES - BPK-R-100 FUSE BLOCKS**

UL Class CC fuse blocks featuring flexible installation with screw or quick-connect terminals for #10–#18 AWG wires, available in 1-, 2-, and 3-pole configurations with an optional clear protective cover.



Model No.	Poles	Current Rating	Voltage Rating	Includes Cover
BPK-R-101	1	30A	600VAC / 600VDC	●
BPK-R-102	2	30A	600VAC / 600VDC	●
BPK-R-103	3	30A	600VAC / 600VDC	●
BPK-R-101-C	1	30A	600VAC / 600VDC	○
BPK-R-102-C	2	30A	600VAC / 600VDC	○
BPK-R-103-C	3	30A	600VAC / 600VDC	○

○ Includes Cover

\*Ratings and approvals may vary by part number; the values shown represent the series range.

**MIDGET FUSES - PANEL MOUNTED FUSE HOLDERS**

Shock-Safe panel-mounted fuse holders for Midget fuses, providing reliable protection and easy, tool-free replacement.



Model No.	Release Type	Cap Type	Terminals Style	Current Rating	Voltage Rating
PMG-KB-01-Q2S	Finger Release	Bayonet Cap	Quick Connect - 0.250"	30A	600VAC
PMG-KB-02-Q2S	Finger Release	Bayonet Cap	Quick Connect - 0.250"	30A	600VAC

**INDUSTRIAL POWER FUSES - FUSE CLIPS**

PCB-mounted fuse clips for midget, and UL Class T fuses up to 30 A, featuring tin-plated pins for easy soldering and end stops for quick, reliable fuse installation.



Model No.	Current Rating	Voltage Rating	Material	Finish
CSG-01	30A	300VAC / 160VDC	Spring Brass	Bright Tin-Plated

**INDUSTRIAL POWER FUSES CROSS REFERENCE**

TYPE	OPTIFUSE	EATON / BUSSMANN	EATON / EDISON	LITTELFUSE	MERSEN
CLASS RK5 FUSES	TRK5-NR	FRN-R	ECNR	FLNR	TR-R
CLASS J FUSES	T6J	LPJ	JDL	JTD	AJT
CLASS T FUSES	F3T	JJN	TJN	JLLN	A3T
CLASS T FUSES	F6T	JJS	TJS	JLLS	A6T
CLASS CC FUSES	FPK-R	KTK-R	HCLR	KLKR	ATMR
CLASS CC FUSES	TPK-R	FNQ-R	HCTR	KLDR	ATQR
MIDGET FUSES	FPK	KTK	MCL	KLK	ATM
MIDGET FUSES	TPK	FNQ	MEQ	FLQ	ATQ
CLASS CC FUSE BLOCKS	BPK-R-500	CHCC	EHCC	LPSC	USCC
CLASS CC FUSE BLOCKS	BPK-R-100	BCM	BCM	L600C	303
CLASS T FUSE BLOCKS	BLT3	*BLUE SEA: 5007100, 5502100			

\*Ratings and approvals may vary by part number; the values shown represent the series range.

Industrial Power Fuses

Electronic Glass & Ceramic Fuses

Telecom Fuses / Line Voltage Circuit Breakers

Electronic SMD Fuses / Subminiature Fuses

Electronic Micro Fuses

Resettable Fuses (PTC)

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Competitor Cross-Reference Guide

ELECTRONIC GLASS & CERAMIC FUSES



Specifications

Multiple sizes available  
 Fast Acting & Time Lag options  
 Glass or ceramic construction  
 Compliant with UL/CSA and IEC standards  
 Available with or without axial leads  
**Request -P series for axial lead versions**  
 Visit [www.optifuse.com](http://www.optifuse.com) and our datasheets for part-specific details



Size	Construction	FAST ACTING		TIME LAG			
		Model No.	Current Rating	Model No.	Current Rating	Voltage Rating	Interrupting Rating
3.6 x 10 mm	Glass	FSF	100mA to 15A	TSF	100mA to 15A	250VAC	50AAC
3.6 x 10 mm	Ceramic	FCF	100mA to 15A	TCF	100mA to 15A	250VAC	50AAC
5 x 15 mm	Glass	FSE	300mA to 15A	TSE	200mA to 10A	250VAC	100AAC
5 x 20 mm (IEC)	Glass	FSD	125mA to 20A	TSD	100mA to 20A	250VAC	35AAC or 10In
5 x 20 mm (IEC)	Ceramic	FCD	200mA to 20A	TCD	200mA to 16A	250VAC	1500AAC
5 x 20 mm (UL)	Glass	FSC	125mA to 20A	TSC / MSC*	100mA to 15A	250VAC	200AAC
6.3 x 32 mm	Ceramic	SCA*	200mA to 25A	-	-	500VAC	10000AAC
6.3 x 32 mm	Glass	FSA	100mA to 30A	TSA	200mA to 30A	250VAC	300AAC
6.3 x 32 mm	Ceramic	FCA	300mA to 30A	TCA	100mA to 30A	250VAC	750AAC

\*SCA: Very Fast Acting  
 \*MSC: Medium Time Lag

Ordering information

**F** - **S** - **F** - **P** - **10A** - **BP**

**RESPONSE**    **CONSTRUCTION**    **SIZE**    **LEADS**    **CURRENT RATING**    **PACKAGING**

**F:** Fast Acting  
**T:** Time Lag  
**M:** Medium Time Lag  
**S:** Very Fast Acting

**S:** Glass  
**C:** Ceramic

**F:** 3.6 x 10 mm  
**E:** 5 x 15 mm  
**D:** 5 x 20 mm (IEC)  
**A:** 6.3 x 32 mm

**Blank:** Cartridge  
**P:** Axial Leads

100mA to 30A

**Blank:** Bulk  
**BP:** Retail Pack  
**VP:** Value Pack  
**BX:** Pill Box

ELECTRONIC GLASS & CERAMIC FUSES - FUSE BLOCKS

BLC-16 offers straight or angled 0.250" Quick Connect terminals with 1- or 2-leg anti-rotation designs. BLC-20A & BLC-20C snap together for multi-position assemblies.



Fuse Size Supported	Model No.	Current Rating	Voltage Rating
6.3 x 32 mm	BLC-16	25A	250VAC
6.3 x 32 mm	BLC-20A	10A	250VAC
5 x 20 mm	BLC-20C	8A	250VAC
5 x 20 mm	BLC-14	6.3A	250VAC
5 x 20 mm	BLC-15	6.3A	250VAC

\*Ratings and approvals may vary by part number; the values shown represent the series range.

ELECTRONIC GLASS & CERAMIC FUSES - IN-LINE FUSE HOLDERS

In-line fuse holders are designed to be installed directly within wire harnesses used in electronics, appliances, and lighting, providing dependable AC/DC circuit protection in space-limited applications. They are offered in a wide range of wire gauges, lengths, and colors, with customizable body colors to meet specific design requirements. For our complete offering – visit [www.optifuse.com](http://www.optifuse.com)

**LPC** - **02** **B** - **16** **R**

**FUSE SIZE**    **SERIES**    **BODY COLOR**    **WIRE GAUGE**    **WIRE COLOR**

Fuse Size	Body Color	Wire Gauge	Amps.	Wire Color			
LPA	6.3 x 32 mm	B	Black	20AWG	5A	R	Red
LPC	5 x 20 mm	W	White	18AWG	10A	Y	Yellow
				16AWG	15A		
				14AWG	20A		
				12AWG	30A		
				10AWG	40A		



Fuse Size Supported	Model No.	Wire Gauge	Current Rating	Voltage Rating
6.3 x 32 mm	LPA-01W-18R	18	10A	250VAC / 32VDC
6.3 x 32 mm	LPA-05W-12R	12	30A	32VDC
6.3 x 32 mm	LPA-05W-14R	14	20A	32VDC
6.3 x 32 mm	LPA-07B-10R	10	40A	250VAC / 100VDC
6.3 x 32 mm	LPA-07B-14R	14	20A	250VAC / 100VDC
6.3 x 32 mm	LPA-08B-14R	14	20A	32VDC
6.3 x 32 mm	LPA-21B-16R	16	15A	250VAC
6.3 x 32 mm	LPA-24B-12R	12	30A	250VAC / 32VDC
6.3 x 32 mm	LPA-24B-14R	14	20A	250VAC / 32VDC
5 x 20 mm	LPC-02B-16R	16	15A	500VAC / 32VDC
5 x 20 mm	LPC-08B-18R	18	10A	32VDC
5 x 20 mm	LPC-24B-12R	12	30A	250VAC / 32VDC

\* Fuse not included



\*Ratings and approvals may vary by part number; the values shown represent the series range.

**ELECTRONIC GLASS & CERAMIC FUSES - IN-LINE FUSE HOLDERS (HARSH ENVIRONMENTS)**

In-line fuse holders for 6.3 x 32mm fuses, offered in IP51 (LPA-04Y) and IP67-rated (LPA-03Y) versions for harsh environments, accept various wire gauges with simple crimp assembly; wires are not provided in the standard product.



Fuse Size Supported	Model No.	Wire Gauge	Current Rating	Voltage Rating
6.3 x 32 mm	LPA-03Y	Accepts #20 to #10 AWG	7.5A to 30A	250VAC / 32VDC
6.3 x 32 mm	LPA-04Y	Accepts #18 to #14 AWG	10A to 25A	250VAC / 32VDC

**ELECTRONIC GLASS & CERAMIC FUSES - FUSE CLIPS**

Cost-effective fuse clips for secure PCB or rivet mounting of 5mm and 1/4-inch diameter fuses.



Fuse Size Supported	Model No.	Current Rating	Voltage Rating	Material	Finish
1/4" Diameter Fuses	CNA-01	15A	250VAC	Phosphor-Bronze	Bright Tin-Plated
1/4" Diameter Fuses	CNA-03	15A	250VAC	Brass	Bright Tin-Plated
1/4" Diameter Fuses	CSA-01	15A	500VAC	Spring Bronze	Bright Tin-Plated
1/4" Diameter Fuses	CSA-06	15A	250VAC	Phosphor-Bronze	Bright Tin-Plated
5mm Diameter Fuses	CSC-02	10A	250VAC	Bronze	Tin-Plated
5mm Diameter Fuses	CSC-03	10A	250VAC	Bronze	Bright Tin-Plated
5mm Diameter Fuses	CSC-05	10A	250VAC	Phosphor-Bronze	Bright Tin-Plated

**ELECTRONIC GLASS & CERAMIC FUSES - PCB MOUNTED FUSE HOLDERS**

Shock-Safe PCB-mounted fuse holders for 5 x 20 mm fuses, with a bayonet cap for easy fuse access, available in vertical or horizontal mounting.



Fuse Size Supported	Model No.	Current Rating	Voltage Rating	Mounting
5 x 20 mm	PVC-02	10A	250VAC	Vertical
5 x 20 mm	PHC-01	6.3A	250VAC	Horizontal

\*Ratings and approvals may vary by part number; the values shown represent the series range.

**ELECTRONIC GLASS & CERAMIC FUSES - PANEL MOUNTED FUSE HOLDERS**

Shock-Safe panel-mounted fuse holders for 5 x 20mm and 6.3 x 32mm fuses provide safe, reliable fuse protection while making replacement quick and easy. They are available in multiple configurations for fuse size, cap type, release method, terminal style, and mounting type, ensuring a perfect fit for any application. OptiFuse offers over 50 style—see our complete range at [www.optifuse.com](http://www.optifuse.com).



Fuse Size	Release Type	Cap Type	Terminals Style
PMA 6.3 x 32 mm	K Finger Release	S Screw Cap	SOR Solder Lug, Right Angle
PMC 5 x 20 mm	D Screwdriver Release	B Bayonet Cap	SOS Solder Lug, Straight
	P Push button Release		Q1S Quick Connect - 0.187", Straight
			Q1R Quick Connect - 0.187", Right Angle
			Q2S Quick Connect - 0.250", Straight



Fuse Size Supported	Release Type	Cap Type	Terminals Style	Model No.	Current Rating	Voltage Rating
6.3 x 32 mm	Finger Release	Bayonet Cap	Quick Connect - 0.250"	PMA-KB-03-Q2S	10A	250VAC
6.3 x 32 mm	Finger Release	Bayonet Cap	Solder Lug	PMA-KB-01H-SOS	30A	250VAC
6.3 x 32 mm	Finger Release	Screw Cap	Quick Connect - 0.187"	PMA-KS-02-Q1S	10A	250VAC
6.3 x 32 mm	Finger Release	Screw Cap	Quick Connect - 0.187"	PMA-KS-06-Q1S	15A	250VAC
6.3 x 32 mm	Screwdriver Release	Screw Cap	Solder Lug	PMA-DS-07-SOS	20A	250VAC
6.3 x 32 mm	Screwdriver Release	Bayonet Cap	Quick Connect - 0.187"	PMA-DB-04-Q1S	10A	250VAC
5 x 20 mm	Finger Release	Screw Cap	Solder Lug	PMC-KS-01-SOS	10A	250VAC
5 x 20 mm	Screwdriver Release	Screw Cap	Solder Lug	PMC-DS-04-SOS	6.3A	250VAC



\*Ratings and approvals may vary by part number; the values shown represent the series range.

### TELECOM FUSES

Providing high-interrupting AC/DC overcurrent for telecom, control, and signal circuits, these fuses support LED or blown-fuse alarms. Industry-standard colors allow easy identification. The FPT-C version adds a clear removable cover for added protection.



FPT

**Specifications**

- **Current Rating:** 1A to 20A
- **Voltage Rating:** 125VAC/125VDC
- **Interrupting Rating:** 300A AC 300A DC



FPT-C

**Specifications**

- **Current Rating:** 180mA to 20A
- **Voltage Rating:** 125VAC/125VDC
- **Interrupting Rating:** 300A AC 300A DC

### LINE VOLTAGE CIRCUIT BREAKERS

Designed for supplementary circuit protection where branch circuit protection is already installed or not required, this circuit breaker provides overload protection only and must be used with an upstream fuse that provides short circuit protection. Visit [www.optifuse.com](http://www.optifuse.com) for our complete offering and additional product information.



CBW28

Thermal Circuit Breaker  
Fuse holder Type - Push to Reset

**Specifications**

- **Current Rating:** 1A to 20A
- **Voltage Rating:** 250VAC 32VDC
- **Interrupting Rating:** 1000A 250VAC, 200A 32VDC
- Rocker style actuator



CBW58

Thermal Circuit Breaker  
Push to Reset - Standard Profile

**Specifications**

- **Current Rating:** 3A to 50A
- **Voltage Rating:** 250VAC 50VDC
- **Interrupting Rating:** 1000A AC 300A DC



CBW57

Thermal Circuit Breaker  
Push to Reset - Low Profile

**Specifications**

- **Current Rating:** 3A to 30A
- **Voltage Rating:** 250VAC 50VDC
- **Interrupting Rating:** 1000A 125VDC/250VAC



CBW68

Thermal Circuit Breaker  
Push to Reset - High Current

**Specifications**

- **Current Rating:** 40A to 80A
- **Voltage Rating:** 250VAC 32VDC
- **Interrupting Rating:** 1000A 125VAC, 200A 250VAC
- Standard Profile - High Current



#### CONFIGURE YOUR CBW CIRCUIT BREAKER AT OPTIFUSE:

- Splash-proof boots for harsh environments
- Hex or ring nuts in plastic or metal
- Optional name plates for easy identification
- Custom button colors with amperage marking
- Plastic or metal bushings in M11, M12, or 3/8" thread styles
- Multiple terminal options: .250" QC and screw, with/without 90° bend



### ELECTRONIC SURFACE MOUNT (SMD) FUSES



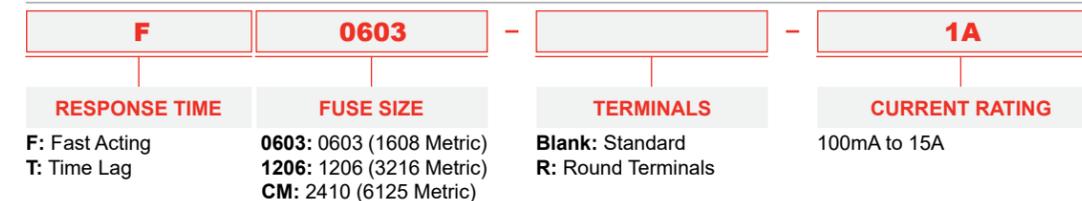
**Specifications**

- Multiple SMD packages available
- Fast Acting & Time Lag options
- Compact, high-density design
- Tape & Reel packaging for automated PCB assembly
- AC/DC ratings
- Visit [www.optifuse.com](http://www.optifuse.com) and our datasheets for part-specific details

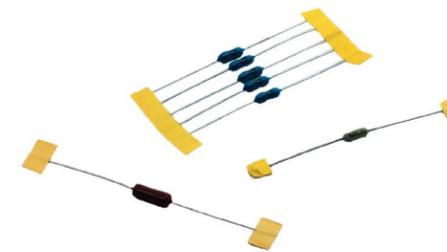


Size	Response Time	Model No.	Current Rating	Voltage Rating	Interrupting Rating
0603 (1608 Metric)	Fast Acting	F0603	200mA to 5A	32VAC / 63VDC	50A AC / 50A DC
0603 (1608 Metric)	Time Lag	T0603	1A to 5A	32VAC / 32VDC	50A AC / 50A DC
1206 (3216 Metric)	Fast Acting	F1206	100mA to 7A	63VAC / 63VDC	50A AC / 50A DC
1206 (3216 Metric)	Time Lag	T1206	500mA to 7A	63VAC / 63VDC	50A AC / 50A DC
2410 (6125 Metric)	Fast Acting	FCM-R	200mA to 15A	125VAC / 125VDC	100A AC / 100A DC
2410 (6125 Metric)	Time Lag	TCM-R	200mA to 5A	125VAC / 125VDC	100A AC / 100A DC

**Ordering information**



### ELECTRONIC SUBMINIATURE FUSES



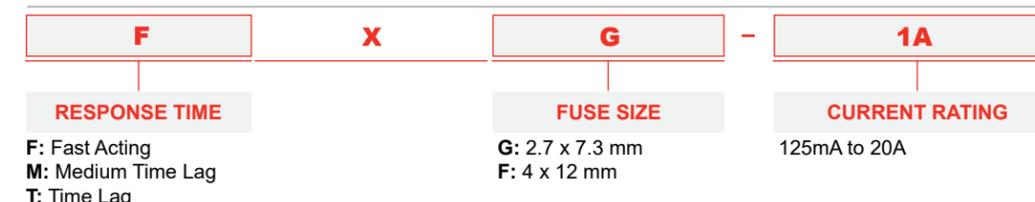
**Specifications**

- Compact PCB protection
- Fast Acting & Time Lag options
- Through-Hole mounting
- Color-coded to response time
- Ammo pack & Reel packaging
- Visit [www.optifuse.com](http://www.optifuse.com) and our datasheets for part-specific details



Size	Response Time	Model No.	Current Rating	Voltage Rating	Interrupting Rating
2.7 x 7.3 mm	Fast Acting	FXG	125mA to 20A	250VAC / 60VDC	50A AC 50A DC
2.7 x 7.3 mm	Medium Time Lag	MXG	200mA to 10A	250VAC	50A AC
2.7 x 7.3 mm	Time Lag	TXG	375mA to 7A	250VAC	30A AC
4 x 12 mm	Fast Acting	FXF	200mA to 15A	350VAC	50A AC
4 x 12 mm	Time Lag	TXF	200mA to 15A	350VAC	50A AC

**Ordering information**



ELECTRONIC MICRO FUSES

Industrial Power Fuses

Electronic Glass & Ceramic Fuses

Telecom Fuses / Line Voltage Circuit Breakers

Electronic SMD Fuses / Subminiature Fuses

Electronic Micro Fuses

Resettable Fuses (PTC)

Competitor Cross-Reference Guide

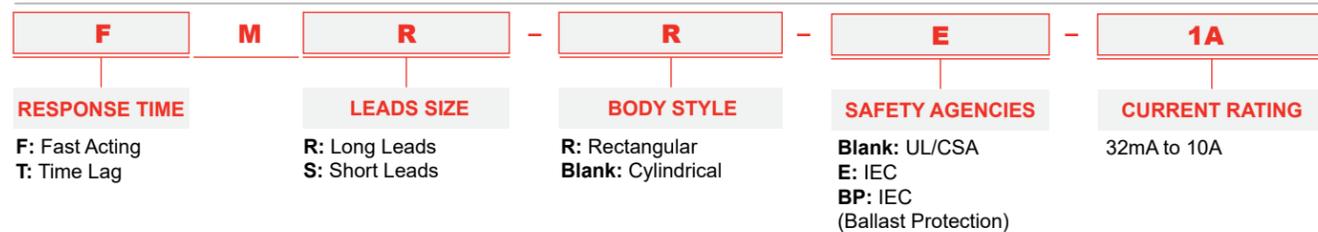


**Specifications**  
 Round & Rectangular bodies  
 Fast Acting & Time Lag options  
 Compliant with UL/CSA and IEC standards  
 Direct PCB THT soldering or mounting in **BMS fuse holders** for field replacement  
 Ammo pack & bulk packaging  
 Visit [www.optifuse.com](http://www.optifuse.com) and our datasheets for part-specific details



Response Time	Safety Agencies	CYLINDRICAL		RECTANGULAR		Current Rating	Voltage Rating	Interrupting Rating
		Long Leaded Model No.	Short Leaded Model No.	Long Leaded Model No.	Short Leaded Model No.			
Fast Acting	UL/CSA	FMR	FMS	FMR-R	FMS-R	32mA to 10A	250VAC	50A AC
Time Lag	UL/CSA	TMR	TMS	TMR-R	TMS-R	32mA to 10A	250VAC	50A AC
Fast Acting	IEC	FMR-E	FMS-E	FMR-R-E	FMS-R-E	315mA to 6.3A	250VAC	100A AC
Time Lag	IEC	TMR-E	TMS-E	TMR-R-E	TMS-R-E	100mA to 6.3A	250VAC	100A AC
Time Lag	IEC	TMR-BP	TMS-BP	-	-	100mA to 6.3A	300VAC	50A AC

Ordering information



SELECTION CONSIDERATIONS:

FAST-ACTING VS TIME-LAG:

- **Fast-Acting:** Reacts instantly to overcurrent, protecting sensitive electronics.
- **Time-Lag (Slow-Blow):** Tolerates brief surges without blowing, ideal for motors and circuits with startup inrush.

**Note:** At OptiFuse, Time-Delay refers only to fuses UL tested and listed as Time-Delay.

UL VS IEC STANDARDS:

- **UL Fuses (UL 248):** Tested for overall system safety, with maximum clearing times to ensure controlled operation during faults. Commonly used in North America.
- **IEC Fuses (IEC 60269):** Tested to protect individual equipment, with predictable response times to keep circuits and devices safe. Used internationally.

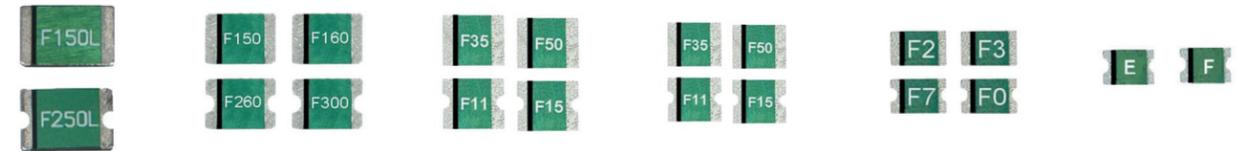
CERAMIC VS. GLASS FUSES:

- **Glass Fuses:** Transparent for easy visual inspection; ideal for low-voltage electronics.
- **Ceramic Fuses:** Durable, high-capacity and sand-filled for arc protection and higher voltage applications.

Learn more at [optifuse.com/blog/optifuse-fuse-selection-guide](http://optifuse.com/blog/optifuse-fuse-selection-guide)



RESETTABLE FUSES (PTC) - SURFACE MOUNT



Size	Low Rho	Model No.	Hold Current (Ihold)	Max Voltage (Vmax)	Max Fault Current (Imax)
0603		R0603	10mA to 200mA	60VDC	40A
0603	x	R0603LR	250mA to 1A	9VDC	100A
0805		R0805	100mA to 1A	15VDC	100A
0805	x	R0805LR	750mA to 2A	6VDC	100A
1206		R1206	50mA to 2A	60VDC	100A
1206	x	R1206LR	500mA to 5A	6VDC	100A
1210		R1210	50mA to 2A	60VDC	100A
1210	x	R1210LR	1.75A to 6.5A	6VDC	100A
1812		R1812	100mA to 3A	60VDC	100A
1812	x	R1812LR	1.4A to 6A	6VDC	100A
2920		R2920	300mA to 5A	60VDC	100A

RESETTABLE FUSES (PTC) - RADIAL LEAD



Model No.	Hold Current (Ihold)	Max Voltage (Vmax)	Max Fault Current (Imax)
RS16	2.5A to 14A	16VDC	100A
RS16HT*	2A to 15A	16VDC	100A
RS30	900mA to 9A	30VDC	100A
RS30HT*	500mA to 1A	30VDC	40A
RSUSB	750mA to 2.5A	16VDC	40A
RS36	500mA to 2.5A	36VDC	40A
RS60RB	50mA to 3.75A	60VDC	40A
RS60SB	500mA to 5A	60VDC	40A
RS90	100mA to 3.75A	90VDC	40A
RS120	100mA to 3.75A	120VAC / 120VDC	17A
RS240	50mA to 2A	240VAC / 240VDC	20A
RS250	80mA to 180mA	250VAC / 250VDC	10A
RS600	150mA to 160mA	600VAC / 600VDC	3A

\* Operating temperatures up to 125°C

RESETTABLE FUSES (PTC) - BATTERY STRAP



Model No.	Hold Current (Ihold)	Max Voltage (Vmax)	Max Fault Current (Imax)
RALR	1.9A to 7.3A	15VDC	100A
RALT	700mA to 3.4A	24VDC	100A
RASR	1.2A to 4.2A	15VDC	100A
RAVL	1.7A to 2.3A	12VDC	100A
RAVT	1.1A to 2.4A	16VDC	100A

Industrial Power Fuses

Electronic Glass & Ceramic Fuses

Telecom Fuses / Line Voltage Circuit Breakers

Electronic SMD Fuses / Subminiature Fuses

Electronic Micro Fuses

Resettable Fuses (PTC)

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COMPETITOR	OPTIFUSE	COMPETITOR	OPTIFUSE	COMPETITOR	OPTIFUSE	COMPETITOR	OPTIFUSE
215	TCD	437	F1206	1110506	CSG-01	600R	RS600
216	FCD	438	F0603	1500274	LPC-02B-16R	60R	RS60RB
217	FSD	467	F0603	3450121	PHC-01	72R	RS90
218	TSD	471	MXG	4450001	CSC-02	A3T	F3T
221	TCD-P	473	TXG	5600000	BMS	A6T	F6T
224	FSE-P	481	FPT / FPT-C	5620000	BMS-R	ABC	FCA
225	FSE	662	FMR-E / FMS-E	5710007	PMG-KB-01-Q2S	ABC-V	FCA-P
226	FCD-P	663	TMR-E / TMS-E	0603FA	F0603	AGC	FSA
227	FSD-P	665	TMR / TMS	0603L	R0603 / R0603LR	AGC-V	FSA-P
228	TSD-P	672	FSF-P	0805L	R0805 / R0805LR	AJT	T6J
229	TSE	673	TSF-P	0FNY0020	LPA-05W-12R	ATM	FPK
230	TSE-P	674	FCF-P	0FNY0030	LPA-05W-12R	ATMR	FPK-R
234	MSC	675	TCF-P	102071	CSA-01	ATQ	TPK
235	FSC	874	FCF-P	102074	CNA-03	ATQR	TPK-R
236	FSC-P	875	TCF-P	102076	CSA-01	BCM	BPK-R-100
238	TSC-P	3510	CNA-03	1206L	R1206 / R1206LR	C310T-SC	TCF-P
239	TSC	3521	CSC-01	1210L	R1210 / R1210LR	C515	TSE-P
251	FXG	3529	CSA-01	16R	RS16	C518	FSE-P
303	BPK-100 / BPK-R-100	3553	BMS-R	1812L	R1812 / R1812LR	C519	TSE
311	FSA	3554	BMS	1A1907	CSA-01	C520	FSE
312	FSA	3566	CSG-01	1A3398	CNA-03	CC12H	T1206
313	TSA	5050	BLOBW-106-G	1A3400	CSG-01	CHCC	BPK-R-500
314	FCA	5052	BLCBW-206	1A5018	CSC-02	CHPV	BPK-500
315	TSA-P	100056	CSC-02	1A5601	CSC-03	CLB	CBW58
318	FSA-P	105003	CSG-01	1A5602	CSC-01	CMB	CBW57
322	SCA-P	111501	CSC-01	215XE	TCD-P	CTB	CBW28
324	FCA-P	111506	CSG-01	216XE	FCD-P	ECNR	TRK5-NR
325	TCA-P	150274	LPC-02B-16R	217XE	FSD-P	EHCC	BPK-R-500
326	TCA	345121	PHC-01	218XE	TSD-P	ETF-AP	TMR-BP
332	SCA	445001	CSC-02	234XE	MSC-P	ETF-BK	TMS-BP
354	BLC-16	571007	PMG-KB-01-Q2S	250R	RS250	femtoSMDC	R0603 / R0603LR
370	FMR-E / FMS-E	5007100	BLT3-200	2920L	R2920	FLNR	TRK5-NR
372	TMR-E	5502100	BLT3-400	30R	RS30	FLQ	TPK
373	FMR / FMS	01000056	CSC-02	3216FF	F1206	FNQ	TPK
374	TMR / TMS	01020071	CSA-01	5112 to 5121 (A3T)	F3T	FNQ-R	TPK-R
382	TMS-E	01020074	CNA-03	5HF	FCD	FNQ-20	LPA-05W-12R
392	TMR-R-E / TMS-R-E	01020076	CSA-01	5HT	TCD	FNQ-30	LPA-05W-12R
395	FMR-R / FMS-R	01050003	CSG-01	5SF	FSD	FRN-R	TRK5-NR
396	TMR-R / TMS-R	01110005MR	CSC-05	5SM	MSC	GAB	FCA
430	T1206	01110501	CSC-01	5ST	TSD	GBB	SCA

\*Ratings and approvals may vary by part number; the values shown represent the series range.

Industrial Power Fuses  
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COMPETITOR	OPTIFUSE	COMPETITOR	OPTIFUSE	COMPETITOR	OPTIFUSE	COMPETITOR	OPTIFUSE
GBB-V	SCA-P	HTC-15M	BLC-13	MISIPTF15B	BLC-13	S506-V	TSD-P
GDA	FCD	HTC-200M	CSC-05	MISIPTF78	BLC-14 / BLC-15	SMD	R2920
GDA-V	FCD-P	HTC-50M	PHC-01	nanoSMDC	R1206 / R1206LR	SR-5-AP	TMR-E
GDB	FSD	JDL	T6J	P204943	BLC-13	SR-5-BK	TMS-E
GDB-V	FSD-P	JJN	F3T	PCS	BMS-R	SR-5F-AP	FMR
GDC	TSD	JJS	F6T	picoSMDC	R0805 / R0805LR	SR-5F-BK	FMS
GDC-V	TSD-P	JLLN	F3T	PTR016	RSUSB	SRP	RASR
GDG	TSC	JLLS	F6T	PTR030	RS30	SS-5-AP	TMR-R-E
GDG-V	TSC-P	JTD	T6J	PTR060	RS60RB	SS-5-BK	TMS-R-E
GDL	TSA	K208228	BLC-14 / BLC-15	PTS1206	R1206	SS-5F-AP	FMR-R
GGC	FSA	KLDR	TPK-R	PTS1812	R1812	SS-5F-BK	FMS-R
GGM	FSC	KLK	FPK	RGEF	RS16	STD	RASR
GGM-V	FSC-P	KLKR	FPK-R	RHEF	RS16HT / RS30HT	TJN	F3T
GMA	FSC	KTK	FPK	RKEF	RS60SB	TJS	F6T
GMA-V	FSC-P	KTK-R	FPK-R	RTEF	RS36	TR-R	TRK5-NR
GMC	MSC	L600C	BPK-R-100	RUEF	RS30	TRF250	RS250
GMC-V	MSC-P	LHFB-1	LPA-03	RUSBF	RSUSB	TRF600	RS600
GMD	TSC	LHFB0001	LPA-03	RXEF	RS60RB	USCC	BPK-R-500
GMD-V	TSC-P	LHFB001	LPA-03	S-8000	BLC-16	VLR	RAVL
GMT	FPT / FPT-C	LPJ-SP	T6J	S500	FSD	VTP	RAVT
GPM-A1	PMC-KS-01-SOS	LPSC	BPK-R-500	S500-V	FSD-P	W202074	CSC-02 / CSC-08
GPM-A11	PMC-DS-05-SOR	LR4	RALR	S501	FCD	W28	CBW28
GPM-A2	PMC-KS-01-SOS	LTP	RALT	S501-V	FCD-P	W57	CBW57
GPM-A8	PMC-DS-05-SOR	LVR	RS240	S504	TSD	W58	CBW58
GPM-G5	PMA-KB-03-Q2S	LVRL	RS120	S504-V	TSD-P	W68	CBW68
GSA	TCA	M209012	BLC-13	S505	TCD	X204950	PVC-02
GSB	FSC	MCL	FPK	S505-V	TCD-P	Y204951	PHC-01
GSB-V	FSC-P	MCRW	FXG	S506	TSD	Z091746	BLA-25
HI5-H-1	PHC-01	MDA	TCA				
HCLR	FPK-R	MDA-V	TCA-P				
HCTR	TPK-R	MDL	TSA				
HFB	LPA-03Y	MDL-V	TSA-P				
HHB	LPA-04Y	MEQ	TPK				
HHK	LPA-01B-14Y	microSMD	R1210 / R1210LR				
HHN	LPA-05W-12Y	MIMR5CISP	CSC-02 / CSC-08				
HHT	LPC-02B-16R	miniSMDC	R1812 / R1812LR				
HKP	PMA-KB-01H-SOS	MIPUPTF45	PVC-02				
HKP-HH	PMA-KB-03-Q2S	MIPUPTF50	PHC-01				
HPG	PMG-KB-02-Q2S	MISILL6	BLA-25				
HPS	PMG-KB-01-Q2S	MISIPTF15	BLC-13				

\*Ratings and approvals may vary by part number; the values shown represent the series range.

This guide is designed as a reference tool to help users identify the closest OptiFuse equivalent to competitive part numbers based on form, fit, and function.

Users are responsible for verifying all product specifications, ratings, and certifications to ensure suitability for their specific application before making substitutions.

For additional assistance, application support, or more detailed technical information, please visit [www.optifuse.com](http://www.optifuse.com) or contact our application engineering team at [engineering@optifuse.com](mailto:engineering@optifuse.com).

# MAXIMIZE YOUR RETAIL SPACE WITH OPTIFUSE PACKAGING!

Discover the power of OptiFuse's industry-leading retail packaging, designed to captivate your customers. Our compact and innovative designs ensure your products stand out, while minimizing valuable retail space.

### Why Choose OptiFuse?

- Trilingual Product Information: Clear, concise details in multiple languages.
- Industry Certifications: Assured quality and compliance.
- UPC Codes: Simplified inventory management.

Perfect for the automotive, marine, transportation, electrical, and industrial industries. Elevate your retail display with OptiFuse – where quality meets efficiency.

For retail packaged products add the following suffix to the bulk part number.

Retail Packs “-BP” Value Packs “-VP” Pill Boxes “-BX”

## RETAIL PACKAGING

### Assortment Packs



**FSA-10L-BP**  
Pack Quantity: 10  
Pack Contents: FSA Series  
2 of (1A, 2A, 3A, 5A) 1 of (4A, 6A)



**FSA-10-BP**  
Pack Quantity: 10  
Pack Contents: FSA Series  
2 of (10A, 15A, 20A, 30A) 1 of (7.5A, 25A)

### Pill Boxes



### Single-Packs



### Multi-Packs



## OPTIFUSE PART NUMBER INDEX

OptiFuse Part #	Page	OptiFuse Part #	Page	OptiFuse Part #	Page
BLC-14	6	FPK	3	RAVL	13
BLC-15	6	FPK-R	3	RAVT	13
BLC-16-B	6	FPT	10	RS120	13
BLC-16-B1	6	FPT-C	10	RS16	13
BLC-16-B2	6	FSA	6	RS16HT	13
BLC-16-S	6	FSA-P	6	RS240	13
BLC-16-S1	6	FSC	6	RS250	13
BLC-16-S2	6	FSC-P	6	RS30	13
BLC-20A	6	FSD	6	RS30HT	13
BLC-20C	6	FSD-P	6	RS36	13
BLT3-200	4	FSE	6	RS600	13
BLT3-400	4	FSE-P	6	RS60RB	13
BMS	12	FSF	6	RS60SB	13
BMS-R	12	FSF-P	6	RS90	13
BPK-R-101	4	FXF	11	RSUSB	13
BPK-R-101-C	4	FXG	11	SCA	6
BPK-R-102	4	LPA-01W-18R	7	SCA-P	6
BPK-R-102-C	4	LPA-03Y	8	T0603	11
BPK-R-103	4	LPA-04Y	8	T1206	11
BPK-R-103-C	4	LPA-05W-12R	7	T6J	2
BPK-R-501	4	LPA-05W-14R	7	TCA	6
BPK-R-502	4	LPA-07B-10R	7	TCA-P	6
BPK-R-503	4	LPA-07B-14R	7	TCC	6
BPK-R-I-501	4	LPA-08B-14R	7	TCC-P	6
BPK-R-I-502	4	LPA-21B-16R	7	TCD	6
BPK-R-I-503	4	LPA-24B-12R	7	TCD-P	6
CBW28	10	LPA-24B-14R	7	TCF	6
CBW57	10	LPC-02B-16R	7	TCF-P	6
CBW58	10	LPC-08B-18R	7	TCM-R	11
CBW68	10	LPC-24B-12R	7	TMR	12
CNA-01	8	MSC	6	TMR-BP	12
CNA-03	8	MSC-P	6	TMR-E	12
CSA-01	8	MXG	11	TMR-R	12
CSA-06	8	PHC-01	8	TMR-R-E	12
CSC-02	8	PMA-DB-04-Q1S	9	TMS	12
CSC-03	8	PMA-DS-07-SOS	9	TMS-BP	12
CSC-05	8	PMA-KB-01H-SOS	9	TMS-E	12
CSG-01	5	PMA-KB-03-Q2S	9	TMS-R	12
F0603	11	PMA-KS-02-Q1S	9	TMS-R-E	12
F1206	11	PMA-KS-06-Q1S	9	TPK	3
F3T	2	PMC-DS-04-SOS	9	TPK-R	3
F6T	2	PMC-KS-01-SOS	9	TRK5-NR	2
FCA	6	PMG-KB-01-Q2S	5	TSA	6
FCA-P	6	PMG-KB-02-Q2S	5	TSA-P	6
FCC	6	PVC-02	8	TSC	6
FCC-P	6	R0603	13	TSC-P	6
FCD	6	R0603LR	13	TSD	6
FCD-P	6	R0805	13	TSD-P	6
FCF	6	R0805LR	13	TSE	6
FCF-P	6	R1206	13	TSE-P	6
FCM-R	11	R1206LR	13	TSF	6
FMR	12	R1210	13	TSF-P	6
FMR-E	12	R1210LR	13	TXF	11
FMR-R	12	R1812	13	TXG	11
FMR-R-E	12	R1812LR	13		
FMS	12	R2920	13		
FMS-E	12	RALR	13		
FMS-R	12	RALT	13		
FMS-R-E	12	RASR	13		

\*Ratings and approvals may vary by part number; the values shown represent the series range.

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