Surface-mount Fuses
Pulse Tolerant Chip Fuses

NEW

Pulse Tolerant chip fuses has high inrush current withstand capability and provide overcurrent protection on DC power systems. Silver fusing element, monolithic and multilayer design provides strong arc suppression characteristics.

These RoHS-compliant surface-mount devices facilitate the development of more reliable, high performance consumer electronics such as laptops, multimedia devices, cell phones, and other portable electronics.

Benefits

- High inrush current withstanding capability
- Ceramic Monolithic structure
- Silver fusing element and silver termination with nickel and tin plating
- Excellent temperature stability
- Strong arc suppression characteristics

Features

- Lead free materials and RoHS compliant
- Halogen free
  (refers to: Br≤900ppm, Cl≤900ppm, Br+Cl≤1500ppm)
- Monolithic, multilayer design
- High-temperature performance
- -55°C to +125°C operating temperature range

Applications

- Laptops
- Digital cameras
- Cell phones
- Printers
- DVD players
- Portable electronics
- Game systems
- LCD monitors
- Scanners

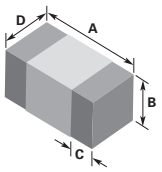
Table FP1 Clear Time Characteristics for Pulse Tolerant Chip Fuses

% of rated current	Clear time at 25°C	
100%	4 hours (min.)	
200%	1 seconds (min.)	60 seconds (max.)
1000%	0.0002 second (min.)	0.02 seconds (max.)

Table FP2 Typical Electrical Characteristics and Dimensions for Pulse Tolerant Chip Fuses

0603 (1608 mm) Pulse Tolerant Chip Fuses

Shape and Dimensions
mm (Inch)

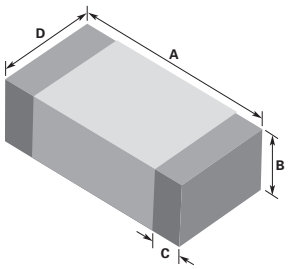


	A		B		C		D	
	Min	Max	Min	Max	Min	Max	Min	Max
mm	1.45	1.75	0.65	0.95	0.21	0.51	0.65	0.95
in	(0.057)	(0.069)	(0.026)	(0.037)	(0.008)	(0.020)	(0.026)	(0.037)

	Typical Electrical Characteristics			Max. Interrupt Ratings	
Part Number	Rated Current (A)	Nominal Cold DCR (Ω)*	Nominal I^2t (A^2sec)†	Voltage (V_{DC})	Current (A)
0603SFP100F/32-2	1.0	0.210	0.080	32	50
0603SFP150F/32-2	1.5	0.101	0.11	32	50
0603SFP200F/32-2	2.0	0.057	0.24	32	50
0603SFP250F/32-2	2.5	0.042	0.56	32	50
0603SFP300F/32-2	3.0	0.030	0.72	32	50
0603SFP350F/32-2	3.5	0.022	1.10	32	50
0603SFP400F/32-2	4.0	0.018	2.08	32	50
0603SFP450F/32-2	4.5	0.014	2.63	32	50
0603SFP500F/32-2	5.0	0.013	3.25	32	50

1206 (3216 mm) Pulse Tolerant Chip Fuses

Shape and Dimensions
mm (Inch)



	A		B		C		D	
	Min	Max	Min	Max	Min	Max	Min	Max
mm	3.00	3.40	0.77	1.17	0.26	0.76	1.40	1.80
in	(0.118)	(0.134)	(0.030)	(0.046)	(0.010)	(0.030)	(0.055)	(0.071)

	Typical Electrical Characteristics			Max. Interrupt Ratings	
Part Number	Rated Current (A)	Nominal Cold DCR (Ω)*	Nominal I^2t (A^2sec)†	Voltage (V_{DC})	Current (A)
1206SFP100F/63-2	1.0	0.340	0.11	63	50
1206SFP150F/63-2	1.5	0.150	0.33	63	50
1206SFP200F/63-2	2.0	0.090	0.80	63	50
1206SFP250F/32-2	2.5	0.070	1.19	32	50
1206SFP300F/32-2	3.0	0.035	1.35	32	50
1206SFP350F/32-2	3.5	0.029	1.84	32	50
1206SFP400F/32-2	4.0	0.023	2.74	32	50
1206SFP450F/32-2	4.5	0.021	3.20	32	50
1206SFP500F/32-2	5.0	0.017	5.50	32	50

* Measured at ≤10% of rated current and 25°C ambient temperature.
† Melting I^2t at 0.001 sec clear time.

RoHS Compliant, ELV Compliant HF Halogen Free