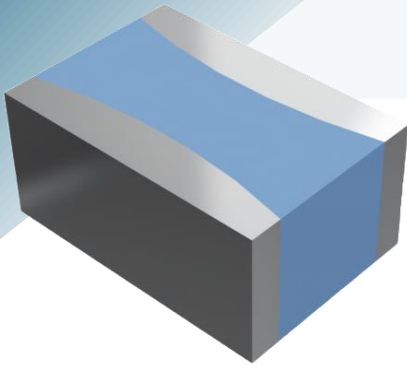




# F1218 SolidMatrix® High Current Surface Mount Fuses



## FEATURES

- Glass ceramic monolithic structure
- Thick Film Silver fusible element
- End terminations are silver thick film plated nickel barrier and Sn/Pb solder plating finish
- Low DC resistance (low power dissipation)
- Symmetrical design (marking optional)
- Operating temperature: -55 °C to +125 °C
- Manufactured and screened in the U.S.A.

## APPLICATIONS

- Aerospace
- Avionics
- Military
- Medical

## Electrical Characteristics

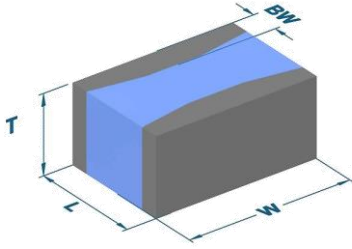
Fuse Part Number / Ratings			DC Resistance (Ohms) 1/			Overload Interrupt Time				Interrupting Rating at Rated Voltage
Part No.	Maximum Voltage (VDC)	Current Rating (Amps)	Minimum	Nominal	Maximum	100% Nominal Rating	300% Nominal Rating	600% Nominal Rating	1000% Nominal Rating	
F1218HR100V048T	48	10	0.0068	0.0090	0.0113	4 hours min. (Fuse body temperature < 125 °C)	0.005-1.0 seconds	0.0005-0.003 seconds	0.0001-0.001 seconds	300A
F1218HR150V048T	48	15	0.0045	0.0060	0.0075	4 hours min. (Fuse body temperature < 125 °C)	0.005-1.0 seconds	0.0005-0.003 seconds	0.0001-0.001 seconds	300A
F1218HR200V048T	48	20	0.0026	0.0035	0.0044	4 hours min. (Fuse body temperature < 125 °C)	0.005-1.0 seconds	0.0005-0.003 seconds	0.0001-0.001 seconds	300A
F1218HR250V048T	48	25	0.0018	0.0024	0.0030	4 hours min. (Fuse body temperature < 125 °C)	0.010-2.0 seconds	0.001-0.010 seconds	0.00025-0.003 seconds	300A
F1218HR300V048T	48	30	0.0016	0.0021	0.0026	4 hours min. (Fuse body temperature < 125 °C)	0.010-2.0 seconds	0.001-0.010 seconds	0.00025-0.003 seconds	300A
F1218HR400V048T	48	40	0.0014	0.0018	0.0023	4 hours min. (Fuse body temperature < 125 °C)	0.005-1.0 second	0.0005-0.005 seconds	0.00010-0.001 seconds	400A

1/ DC Resistance is measured at 10% of the rated current and 25°C ambient

# F1218 SolidMatrix® High Current Surface Mount Fuses

## Product Dimensions

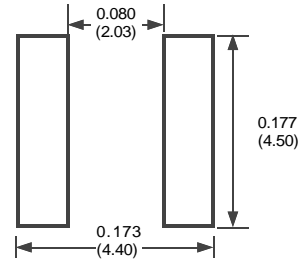
Inches  
(mm)



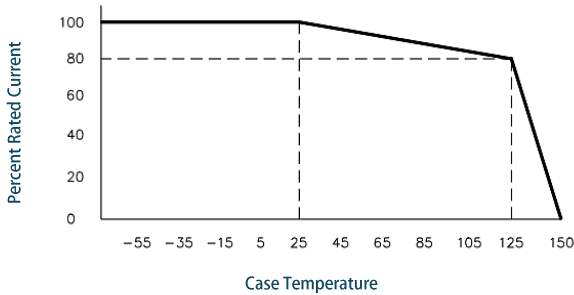
L	W	T	BW
0.120 ± 0.008 (3.20 ± 0.20)	0.176 ± 0.008 (4.47 ± 0.20)	0.082 ± 0.008 (2.08 ± 0.20)	0.030 ± 0.01 (0.76 ± 0.25)

## Recommended Pad Layout

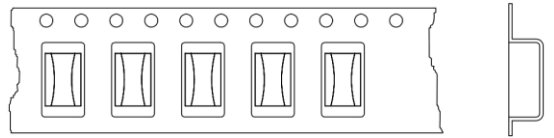
Inches  
(mm)



## Derating Curve



## Tape & Reel Packaging



Note that parts are tape and reeled with terminations 90° positioned with the length of the reel.

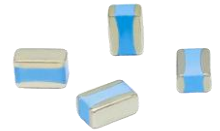
## Part Number Breakdown

F1218 HR 100 V048 T  
(1) (2) (3) (4) (5)

- (1) F1218 - Series Code : 1218 Fuses (1218 Package)
- (2) HR - High Reliability
- (3) 100 - Amperage Value Code : 100 = 10 Amperes  
150 = 15 Amperes  
200 = 20 Amperes  
250 = 25 Amperes  
300 = 30 Amperes  
400 = 40 Amperes
- (4) V048 - Voltage Rating: 48 VDC
- (5) T - Package Code : Tape & Reel

## Termination Finish

Standard termination finish is Sn/Pb solder plating. Also available with Au plated termination finish.



## Special Screening Available

Screen to MIL-PRF-23419/14 or Customer Source Controlled Drawing (SCD).

