

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.
- Operating temperature: -55 °C to +125 °C.
- Manufactured and screened in the U.S.A.

Applications

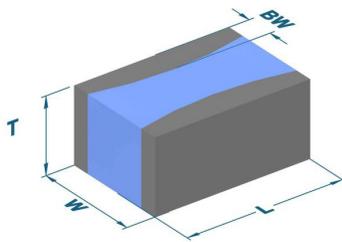
- Medical
- Aerospace
- Avionics
- Military

Electrical Characteristics

Fuse Part Numbers / Ratings			DC Resistance (Ohms) /1			Overload Interrupt Time (Seconds)			Interrupting Rating @Rated Voltage
Part Number	Maximum Voltage (VDC)	Current Rating (Amps)	Minimum	Nominal	Maximum	300% Nominal Rating	600% Nominal Rating	1000% Nominal Rating	
F1218HR100V048Tx	48	10	0.0068	0.0090	0.0113	0.005-1.0 seconds	0.0005-0.003 seconds	0.0001-0.001 seconds	300A
F1218HR150V048Tx	48	15	0.0045	0.0060	0.0075	0.005-1.0 seconds	0.0005-0.003 seconds	0.0001-0.001 seconds	300A
F1218HR200V048Tx	48	20	0.0026	0.0035	0.0044	0.005-1.0 seconds	0.0005-0.003 seconds	0.0001-0.001 seconds	300A
F1218HR250V048Tx	48	25	0.0018	0.0024	0.0030	0.010-2.0 seconds	0.001-0.010 seconds	0.00025-0.003 seconds	300A
F1218HR300V048Tx	48	30	0.0016	0.0021	0.0026	0.010-2.0 seconds	0.001-0.010 seconds	0.00025-0.003 seconds	300A
F1218HR400V048Tx	48	40	0.0014	0.0018	0.0023	0.005-1.0 second	0.0005-0.005 seconds	0.00010-0.001 seconds	300A

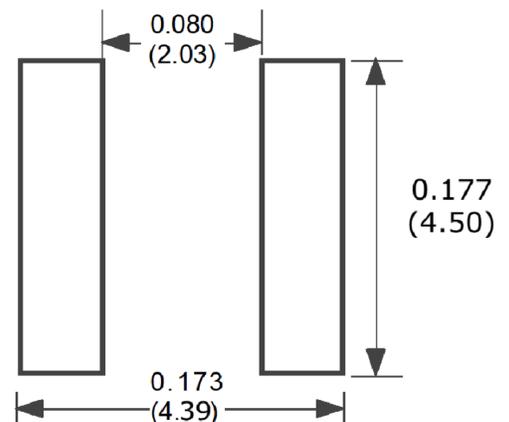
1/ DC Resistance is measured at 10% of the rated current and 25° C ambient

Product Dimensions (Inches)



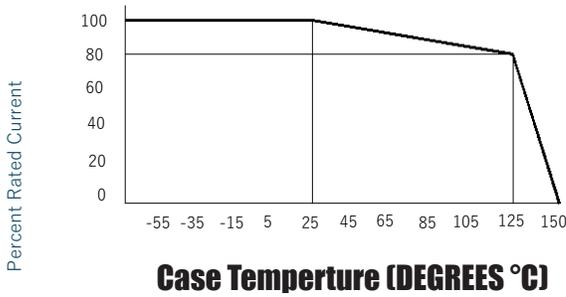
L	W	T	BW
0.120 ± 0.008 (3.05 ± 0.20)	0.176 ± 0.008 (4.47 ± 0.20)	0.082 ± 0.008 (2.08 ± 0.20)	0.030 ± 0.010 (0.76 ± 0.25)

Recommended Pad Layout (Inches)

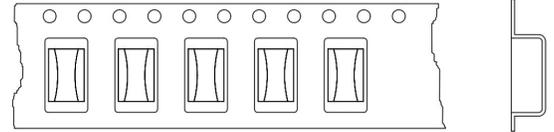


F1218 SolidMatrix[®] High Current Surface Mount Fuses

Derating Curve

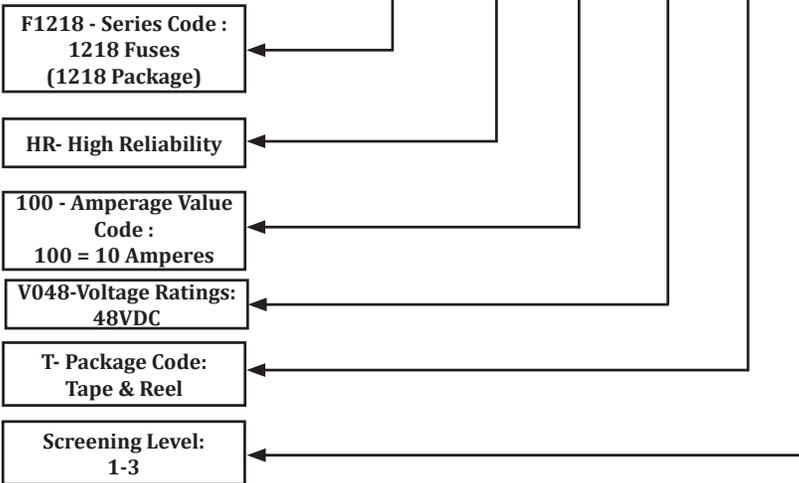


Tape and Reel Packaging



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

Part number Identifier **F1218 HR 100 V048 T x**



Termination Finish

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



Standard Screening Options

- 1- Standard 100% Visual Inspection per MIL-PRF-23419/14, AS9102 FAIR, MIL-STD-1580 DPA.
- 2- Option 2: Group A and B Screening per MIL-PRF-23419/14, AS9102 FAIR, MIL-STD-1580 DPA (see AEM Detail Specification for more details).
- 3- Option 3: Group A, B, and C Screening per MIL-PRF-23419/14, AS9102 FAIR, MIL-STD-1580 DPA (see AEM Detail Specification for more details).