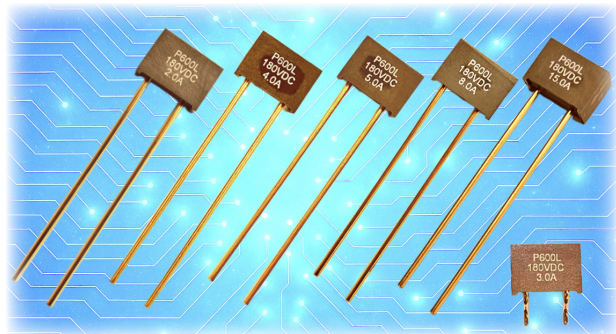




P600L 180V High-Reliability Solid Body Fuses

AEM, Inc. is the sole U.S. manufacturer of solid body current limiting fuses produced utilizing thick film technology with subsequent screening and qualification for spacecraft/satellite applications. AEM, Inc.'s P600L Series Fuses have been selected by most major space programs and have been in orbit for the past 38 years with zero failures.

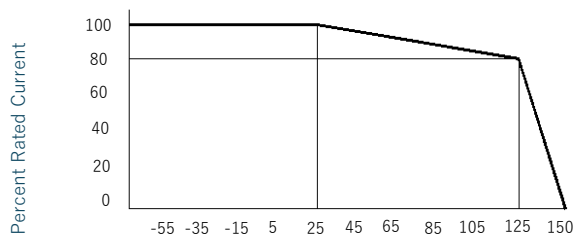
Features

- Solid body construction with hermetically sealed gold fusing elements.
- Consistent clearing times achieved at overload currents regardless of vacuum conditions.
- Solid body construction without outgassing and not subjected to the de-rating factors of MIL-STD-975.
- Solid body construction capable of withstanding greater vibration and shock exposure without damage.
- Positive temperature coefficient of fuse element causing resistance to increase (prior to opening) thereby preventing absolute short to the power source.
- Internal construction ensuring that arc, plasma, and vapor are contained within the fuse package during overload current conditions.
- Groups A/B data supplied with each shipment and Group C inspection optional.
- High-reliability fuse series with over 39 million hours of life testing without a failure.

Applications

- Satellite/Spacecraft
- Aerospace
- Avionics
- Military

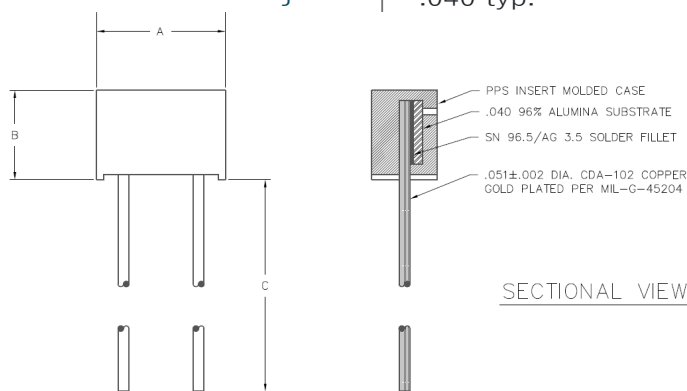
Derating Curve



Case Temperature (DEGREES°C)

Product Dimensions (Inches)

Dimension	P600L 180V
A	.625 max.
B	.440 max.
C	2.00 min.
D	.325 max
E	.152 typ.
F	.350 ± .010
G	.125 typ.
H	.032 typ.
I	.051 ± .001 Dia.
J	.040 typ.



SECTIONAL VIEW

* See table on Page 2

P600L 180V High-Reliability Solid Body Fuses

Electrical Characteristics

Fuse Part Numbers / Ratings			DC Resistance (Ohms) / 1		Overload Interrupt Time (Seconds) / 2			Maximum I ² T (Ampere ² Seconds) / 3		
Part Number	Maximum Voltage (VDC)	Current Rating (Amps)	Minimum	Maximum	250% Nominal Rating	400% Nominal Rating	600% Nominal Rating	250% Nominal Rating	400% Nominal Rating	600% Nominal Rating
P600L-180-2.0	180	2.0	0.1013	0.1688	0.01-1.0	0.001-0.015	0.0003-0.006	25.0	0.960	0.864
P600L-180-3.0	180	3.0	0.0698	0.1163	0.01-1.0	0.001-0.015	0.0003-0.006	56.3	2.16	1.94
P600L-180-4.0	180	4.0	0.0525	0.0875	0.01-1.0	0.001-0.015	0.0003-0.006	100	3.84	3.46
P600L-180-5.0	180	5.0	0.0345	0.0575	0.01-1.0	0.001-0.015	0.0003-0.006	156	6.00	5.40
P600L-180-6.0	180	6.0	0.0300	0.0500	0.01-1.0	0.001-0.015	0.0003-0.006	225	8.64	7.78
P600L-180-7.5	180	7.5	0.0263	0.0438	0.01-1.0	0.001-0.015	0.0003-0.006	352	13.5	12.2
P600L-180-8.0	180	8.0	0.0240	0.0400	0.01-1.0	0.001-0.015	0.0003-0.006	400	15.4	13.8
P600L-180-10.0	180	10.0	0.0200	0.0240	0.1-5.0	0.005-0.030	0.001-0.010	3130	48.0	36.0
P600L-180-15.0	180	15.0	0.0140	0.0165	0.1-5.0	0.005-0.030	0.001-0.010	7030	108	81.0

Notes:

- 1/ DC Resistance is measured at current levels less than or equal to 10% of rated current.
- 2/ Overload interrupt times at -55°C and 250% overload current ratings greater than 1.0 ampere shall open in 5 seconds maximum.
- 3/ Maximum I²T at -55°C and 250% overload current may be greater than indicated.
To calculate maximum I²T at a case temperature of -55°C and 250% overload current, multiply the I² product by the maximum blow times indicated in Note 2 above.
- 4/ Leads are also available in solder dipped finish and stranded wire.

AEM, Inc.'s SK406 series is a modified lead configuration of the P600L, providing the design engineer additional flexibility of surface mounting the popular P600L series.

