



# THE DATASHEET OF AHRF1500



**Specification Status: Released**

**Electrical Rating**

**Voltage: 16V<sub>DC</sub> MAX**  
**Current: 100A MAX**

**Insulating Material:**

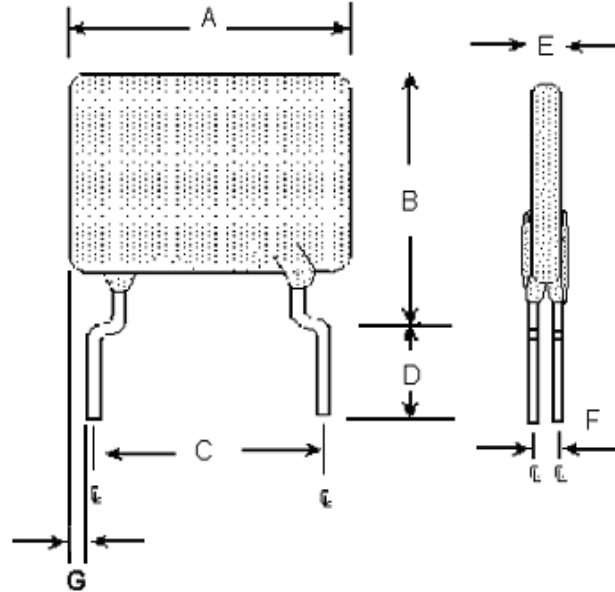
Cured, Flame Retardant Epoxy Polymer  
meets UL94 V-0 Requirements

**Lead Material:**

18 AWG Tin Plated Copper  
(1.0 mm [0.040] nom. diameter)

**Marking:**

- Manufacturer's Mark
- ⊗ H15 and Part Identification
- □ □ □ Lot Identification



**TABLE I. INSTALLATION ENVELOPE DIMENSIONS:**

	A		B		C		D		E		F	G	
	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	TYP	MIN	MAX
mm:	--	23.5	--	28.7	9.4	10.9	7.6	--	--	3.5	1.4	--	7.82
in*:	--	(0.93)	--	(1.13)	(0.37)	(0.43)	(0.30)	--	--	(0.14)	(0.06)	--	(0.31)

\*Rounded off approximation

**TABLE II. PERFORMANCE RATINGS:**

I HOLD RATED CURRENT	CURRENT RATINGS		TIME TO TRIP	INITIAL RESISTANCE VALUES		R <sub>a</sub> MAX	NOMINAL TRIPPED POWER DISSIPATION
AMPS AT 25°C HOLD	AMPS AT 25°C HOLD	AMPS AT 25°C TRIP	SECONDS AT 25°C, 75A MAX	OHMS AT 25°C MIN	OHMS AT 25°C MAX	OHMS AT 25°C MAX	WATTS AT 25°C 16V TYP
15.0	15.0	33.0	20.0	0.0027	0.0063	0.0092	7.0

Reference Documents: PS400, PS300 (reference for R<sub>1</sub> MAX)  
 Precedence: This specification takes precedence over documents referenced herein.  
 Effectivity: Reference documents shall be the issue in effect on the date of invitation for bid.  
 CAUTION: Operation beyond the rated voltage or current may result in rupture, electrical arcing or flame.

**Materials Information**

**ROHS Compliant**  
Directive 2002/95/EC Compliant
**ELV Compliant**  
Directive 2000/53/EC Compliant
**Pb-Free**  
**Halogen Free\***

\* Halogen Free refers to: Br≤900ppm, Cl≤900ppm, Br+Cl≤1500ppm.

**TABLE III. AUTOMOTIVE SPECIFIC STRESS TESTS AND TEST CONDITIONS:**

ELECTRICAL STRESS TESTS	TEST CONDITIONS (see note 2)
ESD Voltage Withstand (see note 1)	25kV
Short Circuit Fault Current Durability	25 cycles, 16V, 200A
Fault Current Durability	350 cycles, 16V/100A
End-of-life Mode Verification	1750 cycles, 16V/100A
Jump Start Endurance (see note 1)	3 cycles, 26V, 1 minute duration
Load Dump Endurance (see note 1)	10 cycles, 86.5V

Note 1: The PolySwitch devices are tested in series with a load resistance and the voltages specified in the test conditions are shared between the PolySwitch device and the load resistance as specified in PS400.

Note 2: Please refer to Appendix A of PS400

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