

Raychem Circuit Protection

308 Constitution Drive
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Raychem**PolySwitch®****PTC Devices**

Resettable Fuse

PRODUCT: AGR500

DOCUMENT: SCD 24442

PCN: 536693

REV LETTER: D

REV DATE: APRIL 19, 2000

PAGE NO.: 1 OF 2

Specification Status: RELEASED**Electrical Rating****Voltage: 16V_{DC} MAX****INSULATING MATERIAL:**

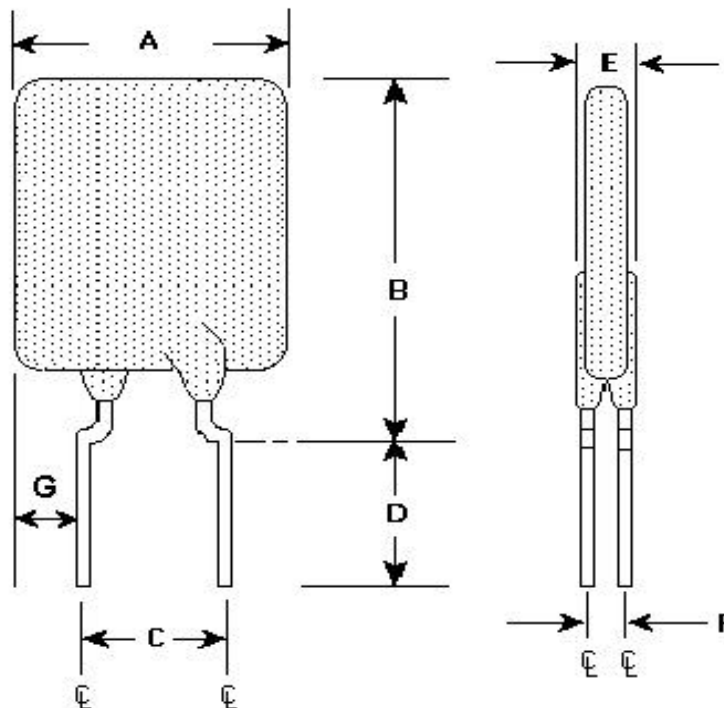
Cured, Flame Retarded Epoxy Polymer

LEAD MATERIAL:

20 AWG Tin/Lead Plated Copper
(0.8 mm [0.032] nom. diameter)

PART MARKING:

Raychem Logo
and Voltage
XX 16
G5 — Part Identification
□□□□ — Lot Identification
(can be on back)

**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:	--	10.4	--	15.6	4.3	5.8	7.6	--	--	3.0	1.2	--	3.94
in*:	--	(0.41)	--	(0.61)	(0.17)	(0.23)	(0.30)	--	--	(0.12)	(0.05)	--	(0.155)

*Rounded off approximation

TABLE II. PERFORMANCE RATINGS:

CURRENT RATINGS			TIME TO TRIP	INITIAL RESISTANCE		R ₁ MAX 1 HR. POST TRIP RESISTANCE STANDARD TRIP	R _A MAX	TRIPPED-STATE POWER DISSIPATION
HOLD AT R ₁ MAX	AMPS AT 25°C HOLD AT R _A MAX	TRIP	SECONDS AT 25°C, 25 A MAX	OHMS AT 25°C MIN	OHMS AT 25°C MAX	OHMS AT 25°C	OHMS AT 25°C	WATTS AT 25°C TYP
5.0	4.3	9.4	2.5	0.014	0.024	0.034	0.048	2.7

Reference Documents:

PS400, PS300 (reference for R₁ MAX)

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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.

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 for the detailed test procedures