



SEA & LAND ELECTRONIC CORP.

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ALPHA-TOP TECHNOLOGY CORP.

[WWW.ALPHA-TOP.CN](http://WWW.ALPHA-TOP.CN)

## APPROVAL SHEET

MODEL NO.: R30-900

CUSTOMER:

CUSTOMER'S APPROVAL:

AUTHORIZED SIGNATURE/STAMP:

DATE

MANUFACTURER:

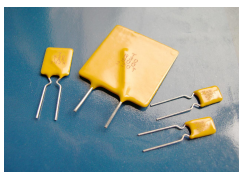
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Submitted by: Chen  
Approved by: YC Lin  
DATE: 11-Jan-22



## R30-900

### Features

- Radial Leaded Devices
- Cured, flame retardant epoxy polymer insulating material meets UL 94V-0 requirements
- Bulk packaging, or tape and reel available on most models

### Applications

- Almost anywhere there is a low voltage power supply, up to 60V and a load to be protected, including:
- Industrial controls
  - Automotive electronics
  - Medical products

Alpha-Top (Sea & Land Alliance)

### Electrical Properties

Model	$V_{max}$	$I_{max}$	$I_{hold}$	$I_{trip}$	$P_d$	Maximum Time To Trip		Resistance		Agency Approval	
	(Vdc)	(A)	(A)	(A)	Typ. (W)	Current (A)	Time (Sec)	Rimin ( $\Omega$ )	R1max ( $\Omega$ )	UL	TUV
R30-900	30	40	9.00	18.00	4.2	40.0	20.0	0.005	0.020	✓	✓

**$I_{hold}$**  = Hold Current : maximum current device will sustain for 4 hours without tripping in 25°C still air.  
 **$I_{trip}$**  = Trip Current : minimum current at which the device will trip in 25°C still air.  
 **$V_{max}$**  = Maximum voltage device can withstand without damage at rated current ( $I_{max}$ ).  
 **$I_{max}$**  = Maximum fault current device can withstand without damage at rated voltage ( $V_{max}$ ).  
 **$P_d$**  = Power dissipated from device when in the tripped state at 25°C still air.  
 **$R_{i min/max}$**  = Minimum/Maximum resistance of device in initial (un-soldered) state.  
 **$R1 max$**  = Maximum resistance of device at 25°C measured one hour after tripping.  
**CAUTION** : Operation beyond the specified ratings may result in damage and possible arcing and flame.

### Environmental Specifications

Test	Conditions	Resistance change
Passive aging	+85°C, 1000 hrs	±5% typical
Humidity aging	+85°C, 85% R.H., 1000 hrs	±5% typical
Thermal shock	+85°C to -40°C, 20 times	±10% typical
Resistance to solvent	MIL-STD-202, Method 215	No change
Vibration	MIL-STD-202, Method 201	No change
Ambient operating /storage conditions : - 40 °C to +85 °C		
Maximum surface temperature of the device in the tripped state is 125 °C		
In case of special use, please contact our engineer		

### Agency Approvals :



E201504(Alpha-Top)/E319079(Sea&Land)



NO.43486

### Regulation/Standard:



2002/95/EC



EN14582



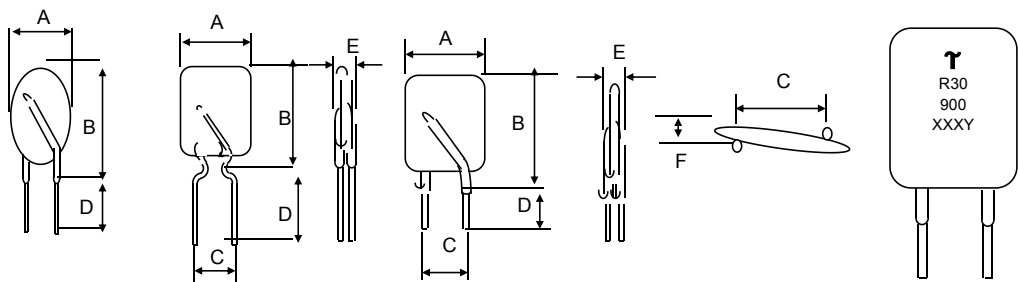
### WARNING:

- Use PPTC beyond the maximum ratings or improper use may result in device damage and possible electrical arcing and flame.
- PPTC are intended for protection against occasional over current or over temperature fault conditions and should not be used when repeated fault conditions or prolonged trip events are anticipated.
- Device performance can be impacted negatively if devices are handled in a manner inconsistent with recommended electronic, thermal, and mechanical procedures for electronic components.
- Use PPTC with a large inductance in circuit will generate a circuit voltage ( $L di/dt$ ) above the rated voltage of the PPTC.
- Avoid impact PPTC device its thermal expansion like placed under pressure or installed in limited space.

Physical Dimensions (Unit: mm/inch)

Model	A Max.	B Max.	C Typ.	D Min.	E Max.	F Max.	Lead Style
R30-900	24.1	29.7	10.2	7.6	3.0	2.0	Straight

Dimensions

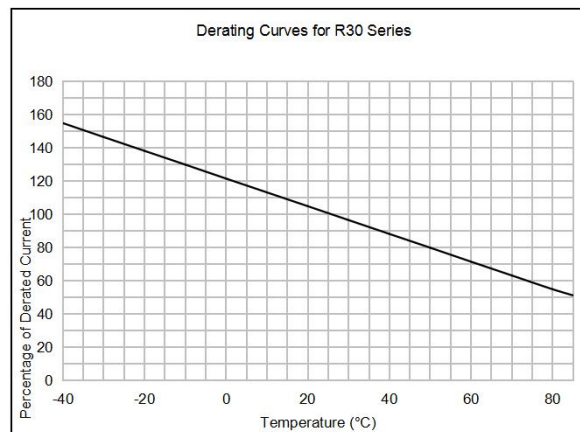
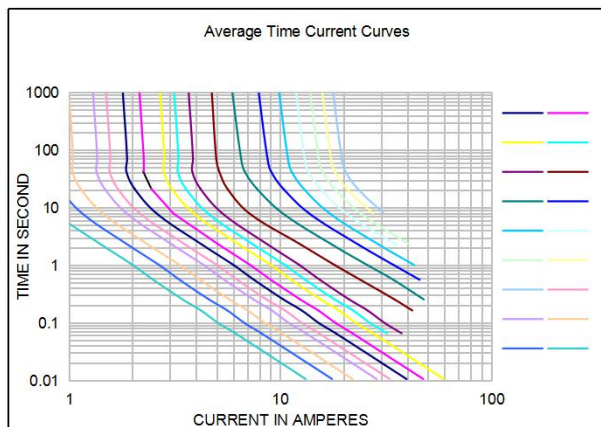


- ⌚ = Trademark
- R30 = Radial type 30 Vrms
- 900 = 9.00A hold current
- XXX = Date code
- Y = Factory code

Physical Characteristics

**Lead Material :**  
R30-900: Tin-plated copper, 0.52mm<sup>2</sup> (24AWG), Φ0.81mm(0.032 in).  
**Lead Solderability :** MIL-STD-202, Method 208E

### Thermal derating curve










Maximum ambient operating temperature ( $T_{\text{mao}}$ ) vs. hold current ( $I_{\text{hold}}$ )									
Model	-40°C	-20°C	0°C	25°C	40°C	50°C	60°C	70°C	85°C
R30-900	13.05	11.70	10.35	9.00	7.47	6.93	6.12	5.49	4.68

Order information				Packing		
R30	900	K or S	R or U	Model	Reel Q'ty	Bag Q'ty
Radial type 30 V	Hold Current 9.00A	K= Kink leads  S= Straight leads	R= Tape&reel  U= Bulk packaged	R30-900	-	500

Tape & Reel packaging per EIA468-B standard.

## Labeling Information


  
 TECHFUSE  
**Sea & Land Electronic Corp.**  




  
 Model:  
 Part no.:  
 Spec.:  
 Lot no.:  
 Q'ty:  
 倉儲: 密封! 溫度: 18~33℃/濕度: 30~60% A