

APPROVAL SHEET

MODEL NO.: R30-030

CUSTOMER:

CUSTOMER'S APPROVAL:

AUTHORIZED SIGNATURE/STAMP:

DATE

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DATE:	10-Jan-13

SEA & LAND ELECTRONIC CORP.



Electrical Properties

Model	V _{max}	I _{max}	I _{hold}	I _{trip}	\mathbf{P}_{d}	Maximum Time P _d To Trip Resistance Age					Agency	Agency Approval	
Model	(Vdc)	(A)	(A)	(A)	Тур. (W)	Current (A)	Time (Sec)	Rimin (Ω)	Rimax (Ω)	R1max (Ω)	UL	TUV-PS	
R30-030	30	40	0.30	0.60	0.44	8.00	0.3	0.370	0.720	1.080			
Ihold = Hold Current : maximum current device will sustain for 4 hours without tripping in 25°C still air.													

Itrip = 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 _{max}).

 I_{max} = Maximum fault current device can withstand without damage at rated voltage I_{max}).

Pd = Power dissipated from device when in the tripped state at 25°C still air.

Ri 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 conditio	ns : - 40 °C to +85 °C	
Maximum surface temperature of th	e device in the tripped state is 125 °C	

Agency Approvals :

UL pending

Regulation/Standard:



2002/95/EC

EN14582

\Lambda 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.

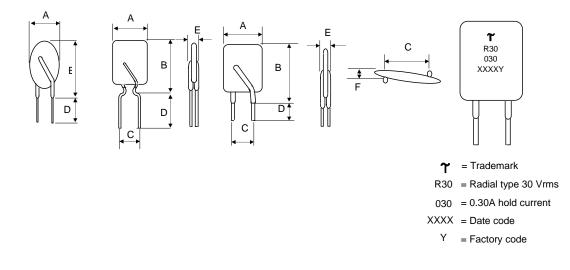
R30-030

Alpha-Top (Sea & Land Alliance)

Physical Dimensions	(Unit:	mm/inch)
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Model	Α	В	С	D	E	F	Lead
Woder	Max.	Max.	Тур.	Min.	Max.	Max.	Style
R30-030	7.4/0.29	10.2/0.4	5.1/0.20	7.6/0.3	3.0/0.12	1.2/0.05	Straight

Dimensions

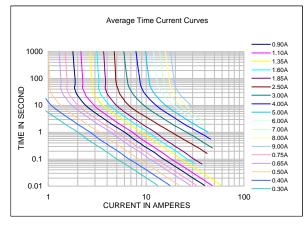


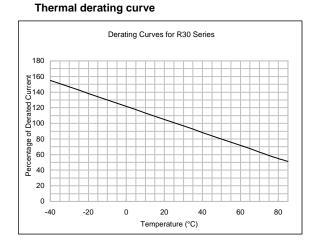
Physical Characteristics Lead Material : R30-030 : Tin-plated copper-clad steel, 0.205mr (24AWG), Φ0.51mm(0.020 in). Lead Solderability : MIL-STD-202, Method 208E

R30-030

Alpha-Top (Sea & Land Alliance)

Typical time-to-trip curve at 25°C





Ihold versus temperature

Model		Maximum ambient operating temperature (T_{mao}) vs. hold current (I_{hold})							
Woder	-40°C	-20°C	0°C	25°C	40°C	50°C	60°C	70°C	85°C
R30-030	0.44	0.39	0.35	0.30	0.25	0.23	0.20	0.18	0.16

Order information		Packing							
R30	30	K or S	R or U	Model	Reel Q'ty	Bag Q'ty			
Radial type	Hold	K= Kink leads							
30 V	Current		R=Tape&reel	R30-030	-	500			
	0.30A	S=Straight	U= Bulk						
		leads	packaged						

Tape & Reel packaging per EIA468-B standard.

Labeling Information

