

APPROVAL SHEET

MODEL NO.: R30-030

CUSTOMER:

CUSTOMER'S APPROVAL:

AUTHORIZED SIGNATURE/STAMP:

DATE

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|---------------|--|
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|---------------|-------------|
| Approved by: | YC Lin |
| 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.

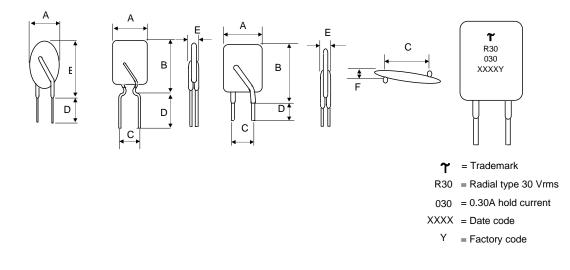
R30-030

Alpha-Top (Sea & Land Alliance)

| Physical Dimensions | (Unit: | mm/inch) |
|---------------------|--------|----------|
|---------------------|--------|----------|

| 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

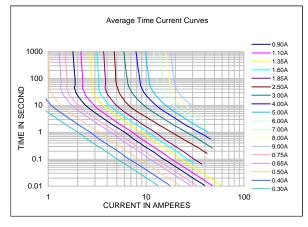


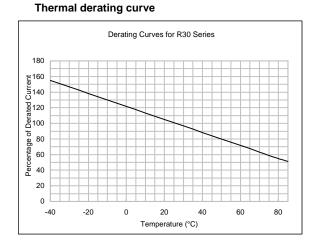
Physical Characteristics Lead Material : R30-030 : Tin-plated copper-clad steel, 0.205mr (24AWG), Φ0.51mm(0.020 in). Lead Solderability : MIL-STD-202, Method 208E

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

