

SEA & LAND ELECTRONIC CORP.

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ALPHA-TOP TECHNOLOGY CORP.

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APPROVAL SHEET

MODEL NO.:	R30-040
CUSTOMER:	
OLIOTOMEDIO AE	NDD OVAL
CUSTOMER'S AF	PROVAL:
AUTHORIZED SIG	GNATURE/STAMP:
DATE	

MANUFACTURER:

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Submitted by: Chung Cheng Approved by: YC Lin DATE: 10-Jan-13

SEA & LAND ELECTRONIC CORP.



R30-040

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}						Resistanc	е	Agency Approval	
	Wodei					Тур.	Current	Time	Rimin	Rimax	R1max	UL	TUV-PS
		(Vdc)	(A)	(A)	(A)	(W)	(A)	(Sec)	(Ω)	(Ω)	(Ω)	OL	104-13
ĺ	R30-040	30	40	0.40	0.80	0.45	8.00	0.3	0.250	0.430	0.645		

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 conditions : - 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: Pb RoHS 2002/95/EC

HF EN14582

WARNING:

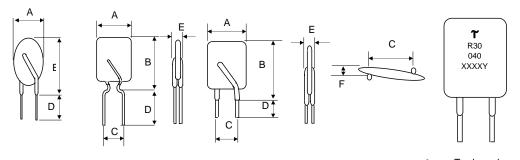
- · Use PPTC beyond the maximum ratings or improper use may result in device damage and possible electrical arcing and flame.
- PPTC are intended for protection against occasional over current or over temperature fault conditions and should not be used when repeated fault conditions or prolonged trip 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.

R30-040

Physical Dimensions (Unit: mm/inch)

Model	Α	В	С	D	E	F	Lead
Model	Max.	Max.	Тур.	Min.	Max.	Max.	Style
R30-040	7.4/0.29	11.4/0.45	5.1/0.20	7.6/0.3	3.0/0.12	1.2/0.05	Straight

Dimensions



↑ = Trademark

R30 = Radial type 30 Vrms

040 = 0.40A hold current

XXXX = Date code

Y = Factory code

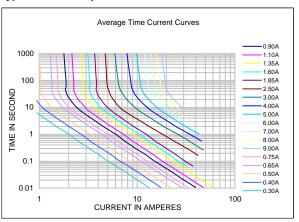
Physical Characteristics

Lead Material:

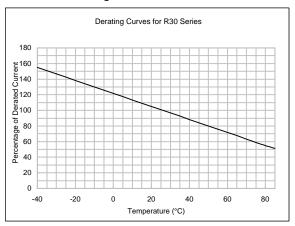
R30-040 : Tin-plated copper-clad steel, 0.205mm (24AWG), Φ 0.51mm (0.020 in).

Lead Solderability: MIL-STD-202, Method 208E

Typical time-to-trip curve at 25°C



Thermal derating curve



I_{hold} versus temperature

Model	Maximum ambient operating temperature (T _{mao}) vs. hold current (I _{hold})										
Wodel	-40°C	-20°C	0°C	25°C	40°C	50°C	60°C	70°C	85°C		
R30-040	0.58	0.52	0.46	0.40	0.33	0.31	0.27	0.24	0.21		

Order information Packing

R30	040	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	R30-040	-	500
	0.40A	S=Straight	U= Bulk			
		leads	packaged			

Tape & Reel packaging per EIA468-B standard.

Labeling Information

