

SEA & LAND ELECTRONIC CORP.

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ALPHA-TOP TECHNOLOGY CORP.

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APPROVAL SHEET

MODEL NO.:	R16-090
CUSTOMER:	
CUSTOMER'S APPROVAL:	
AUTHORIZED SIGNATURE/STA	MP:
DATE	

MANUFACTURER:

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Submitted by: Chung Cheng Approved by: YC Lin DATE: 9-Apr-13

SEA & LAND ELECTRONIC CORP.



Features Applications

Radial Leaded Devices

insulating material meets

ılk packaging, or tape and reel vailable on most models

protected, including:

■Personal care product

Almost anywhere there is a low voltage er supply, up to 16V and a load to be

Alpha-Top (Sea & Land Alliance)

				Maximum Time					Resistance				
Model	V_{max}		I _{hold}	I _{hold} I _{trip} (A) (A)	P_{d}	To Trip		Resistance			Agency A	Agency Approval	
ini dadi.					Тур.	Current	Time	Ri min	Ri max	R1 max	UL	TUV	
	(Vdc)		(A)		(W)	(A)	(Sec)	(Ω)	(Ω)	(Ω)			
R16-090	16	100	0.90	1.80	0.60	8.00	1.2	0.070	0.1200	0.180			

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 (I $_{max}$).

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

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 the device	in the tripped state is 125 °C	

Agency Approvals : **UL** pending

2002/95/EC Regulation/Standard:

EN14582

PHYSICAL SPECIFICATIONS:

Materials : Leads

Tin plated copper-clad steel, 24 AWG (0.51mm/0.020" Dia.)

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

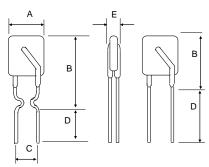
Device Labeling: Device is marked with Logo, amperage rating, voltage rating & date code.



- 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.

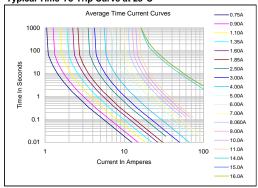
Physical Dimensions (Unit: mm)

Model	Α	В	С	D	E	Lead
	Max.	Max.	Тур.	Min.	Max.	Style
R16-090	7.40	12.20	5.10	7.6	3	Kink

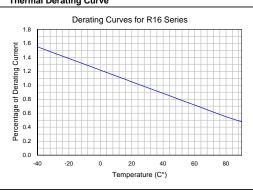


Note : Stand-offs only used for R16-090 \sim R16-250

Typical Time-To-Trip Curve at 25°C







Packing:

dotting.					
Model	Reel QTY	Bag QTY			
R16-090	3000	500			

Tape & Reel packaging per EIA468-B standard.

Labeling Information

