

## APPROVAL SHEET

MODEL NO.:	SMD2018-075

CUSTOMER:

CUSTOMER'S APPROVAL:

AUTHORIZED SIGNATURE/STAMP:

DATE

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Submitted by:	Chen
Approved by:	YC Lin
DATE:	7-Jun-23

SEA & LAND ELECTRONIC CORP.

# 200 **a** 150 **a** 100 **a** 050 **a** 030

#### Features Surface Mount Devices

### Lead free device

- Size 4.5\*3.2 mm/0.18\*0.12 inch
- Surface Mount packaging for automated assembly

Computer mother board, Modem. USB hub PDAs & Charger, Analog & digital line card

Almost anywhere there is a low voltage

power supply, up to 60V and a load to be

Applications

protected, including:

Digital cameras, Disk drivers, CD-ROMs,

Alpha-Top (Sea & Land Alliance)

## SMD2018-075

Model	V <sub>max</sub>	I <sub>max</sub>	I <sub>hold</sub>	I <sub>trip</sub>	P <sub>d</sub>	Maximum Time To Trip		Resistance		Agency Approval	
WOUEI			@25°C	@25°C	Max.	Current	Time	Ri <sub>min</sub>	R1max	UL	τυν
	(Vdc)	(A)	(A)	(A)	(W)	(A)	(Sec)	(Ω)	(Ω)	UL	100
SMD2018-075	33	100	0.75	1.50	1.1	8.0	0.50	0.130	0.900		
Ihold = Hold Current. Maximum current device will not trip in 25°C still air.											
Itrip = Trip Current. N	1inimum curre	ent at which th	ne device will a	always trip in :	25°C still air.						
Vmax = Maximum ope	rating voltage	e device can v	vithstand witho	out damage a	it rated curre	nt (Imax).					
Imax = Maximum fau	lt current devi	ice can withst	and without da	amage at rate	ed voltage (V	max).					
Pd = Power dissipat	ion when dev	ice is in the tr	ipped state in	25°C still air	environment	at rated voltag	je.				
Rimin/max = Minimum	/Maximum de	evice resistan	ce prior to trip	ping at 25°C.							
R1 <sub>max</sub> = Maximum dev	rice resistance	e is measured	l one hour pos	st reflow.							
CAUTION : Operation I	beyond the sp	ecified rating	s may result in	n damage and	d possible an	cing and flame					

#### **Environmental Specifications**

Test	Conditions
Passive aging	+85°C, 1000 hrs.
Humidity aging	+85°C, 85% R.H. , 168 hours
Thermal shock	+85°C to -40°C, 20 times
Resistance to solvent	MIL-STD-202, Method 215
Vibration	MIL-STD-202, Method 201
Ambient operating conditions : - 40 °C to +85 °C	
Maximum surface temperature of the device in the trippe	ed state is 125 °C
In case of special use, please contact our engineer	

#### Agency Approvals :

Regulation/Standard:

RoHS HF

2015/863/EU EN14582

Ihold Versus Temperature

Model	Maximum am	nbient operatii	ng temperatur	re (T <sub>mao</sub> ) vs. h	old current (I	nold)			
	-40°C	-20°C	0°C	25°C	40°C	50°C	60°C	70°C	85°C
SMD2018-075	1.13	1.02	0.88	0.75	0.59	0.52	0.43	0.37	0.25

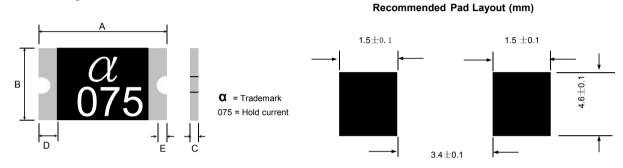


## SMD2018-075

Alpha-Top (Sea & Land Alliance)

Model	Α			В		С		E
woder	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Min.
SMD2018-075	4.72	5.44	4.22	4.93	0.60	1.00	0.30	0.30

**Dimensions & Marking** 



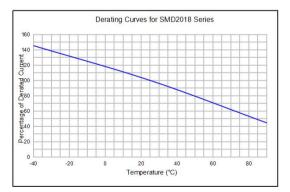
#### **Termination Pad Characteristics**

Terminal pad materials : Terminal pad solderability : Rework

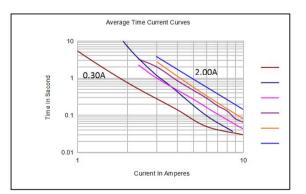
Tin-plated Nickel-Copper Meets EIA specification RS186-9E and ANSI/J-STD-002 Category 3.

Use standard industry practices, the removal device must be replaced with a fresh one.

#### **Thermal Derating Curve**



#### Typical Time-To-Trip At 25°C



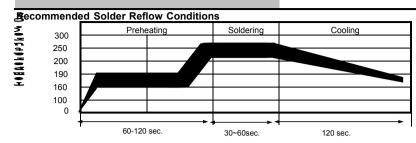
## WARNING:

- Use PYTC 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.
- Contamination of the PPTC material with certain silicon based oils or some aggressive solvents can adversely impact the performance of the devices. PPTC SMD can be cleaned by standard methods.

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## SMD2018-075

#### Alpha-Top (Sea & Land Alliance)



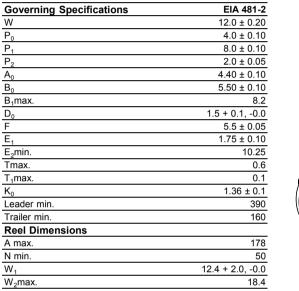
Recommended reflow methods: IR, vapor phase oven, hot air oven.
Devices are not designed to be wave soldered to the bottom side of the board.

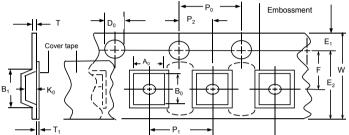
Recommended maximum paste thickness is 0.25 mm (0.010 inch). Devices can be cleaned using standard method and solvents.

Note : If reflow temperatures exceed the recommended profile, devices may not meet the performance requirements.

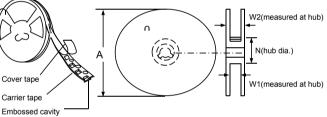
Tape And Reel Specifications (mm)

EIA Ta	ipe Comp	onent D	imensions
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#### **EIA Reel Dimensions**



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#### Storage And Handling

• Storage conditions : 40°C max, 70% R.H.

· Devices may not meet specified performance

if storage conditions are exceeded.

### Order Information

Order Information		Раскаділд
SMD2018	075	Tape & Reel Quantity
Product name	Hold	
Size 5045mm/2018 inch	Current	2500 pcs/reel
SMD : surface mount device	0.75A	

Tape & reel packaging per EIA481-1

#### Labeling Information

