

SEA & LAND ELECTRONIC CORP.

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ALPHA-TOP TECHNOLOGY CORP.

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APPROVAL SHEET

MODEL NO.:	SMD1210-075-16V	
CUSTOMER:		
QUOTOMEDIC	A A D D D O V A J	
CUSTOMERS	S APPROVAL:	
AUTHORIZED	SIGNATURE/STAMP:	
DATE		

MANUFACTURER:

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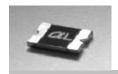
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Submitted by: Chung Cheng Approved by: YC Lin DATE: 11-Apr-13

SEA & LAND ELECTRONIC CORP.



SMD1210-075-16V

Features

- Surface Mount Devices
- Lead free device
- Size 3.2*2.5mm/0.12*0.10 inch
 Surface Mount packaging

for automated assembly

Applications

Almost anywhere there is a low voltage power supply, up to 30V and a load to be

protected, including:

- Computer mother board, Modem.
- Telecommunication equipments.

Alpha-Top (Sea&Land Alliance)

Performance Specification

Model	Marking	V_{max}	I _{max}	I _{hold}	I_{trip}	P_d	mum Го Trip	Resistance			
	Wodei	Walking			@25°C	@25°C	Тур.	Current	Time	Ri_{min}	R1 _{max}
			(Vdc)	(A)	(A)	(A)	(W)	(A)	(Sec)	(Ω)	(Ω)
	SMD1210-075-16V	αG	16.0	100	0.75	1.50	0.6	8.0	0.10	0.070	0.400

Ihold = Hold Current. Maximum current device will not trip in 25°C still air.

Itrip = Trip Current. Minimum current at which the device will always trip in 25°C still air.

Vmax = Maximum operating voltage device can withstand without damage at rated current (Imax).

Imax = Maximum fault current device can withstand without damage at rated voltage (Vmax).

Pd = Power dissipation when device is in the tripped state in 25°C still air environment at rated voltage.

Rimin/max = Minimum/Maximum device resistance prior to tripping at 25°C.

R1_{max} = Maximum device resistance is measured one hour post reflow.

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., 168 hours	±5% typical				
Thermal shock	+85°C to -40°C, 20 times	±33% typical				
Resistance to solvent	MIL-STD-202,Method 215	No change				
Vibration	MIL-STD-202,Method 201	No change				
Ambient operating conditions : - 40 °C to +85 °C						
Maximum surface temperature of the device in the tripped s	tate is 125 °C					

AGENCY APPROVALS : UL pending

Regulation/Standard: (Pb) RoHS 2002/95/EC

HF EN14582

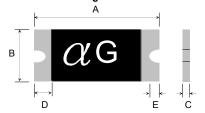
I_{hold} Versus Temperature

Model Maximum ambient operating temperature (T _{mao}) vs. hold current (I _{hold})										
	Model	-40°C	-20°C	0°C	25°C	40°C	50°C	60°C	70°C	85°C
S	MD1210-075-16V	1.00	n 97	0.86	0.75	0.64	0.59	0.54	0.48	0.40

Construction And Dimension (Unit:mm)

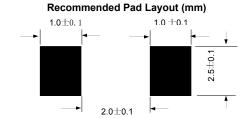
Madal		A	В		(D	E
Model	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Min.
SMD1210-075-16V	3.00	3.43	2.35	2.80	0.30	0.80	0.30	0.10

Dimensions & Marking



α = Trademark

G = Part identification



Termination Pad Characteristics

Terminal pad materials :

Tin-plated Nickel-Copper

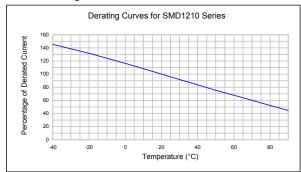
Terminal pad solderability:

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

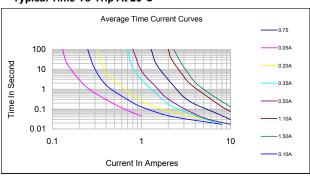
Rework

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

Thermal Derating Curve



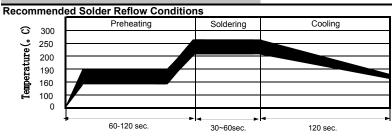
Typical Time-To-Trip At 25°C



WARNING:

- Use 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
- 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
- Requests that customers comply with our recommended solder pad layouts and recommended reflow profile. Improper board layouts or reflow profile could negatively impact solderability performance of our devices.

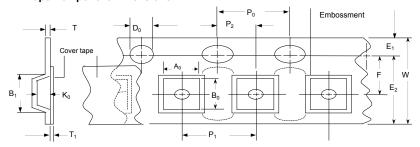


- Recommended reflow methods : IR, vapor phase oven, hot air oven.
- Devices are not designed to be wave soldered to the bottom side of the board.
- Recommended maximum paste thickness is 0.25 mm (0.010 inch).
- Devices can be cleaned using standard method and solvents.
- Note: If reflow temperatures exceed the recommended profile, devices may not meet the performance requirements.

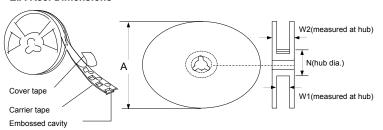
Tape And Reel Specifications (mm)

Governing Specifications	EIA 481-2
W	8.0 ± 0.20
P0	4.0 ± 0.10
P1	4.0 ± 0.10
P2	2.0 ± 0.10
A0	2.82 ± 0.10
B0	3.52± 0.10
B1max.	4.35
D0	1.5 + 0.1, -0.0
F	7.5 ± 0.05
E1	1.75 ± 0.10
E2min.	6.25
Tmax.	0.6
T1max.	0.1
K0	0.90 ± 0.1
Leader min.	390
Trailer min.	160
Reel Dimensions	
A max.	178
N min.	50
W1	8.4 + 1.5, -0.0
W2max.	22.4

EIA Tape Component Dimensions



EIA Reel Dimensions



Storage And Handling

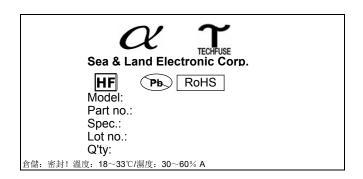
- Storage conditions: 40°C max, 70% R.H.
- Devices may not meet specified performance if storage conditions are exceeded.

Order Information Packaging SMD1210 075 -16V

SMD1210	0/5	-16V	Tape & Reel Quantity
Product name	Hold	Max	
Size 3225 mm / 1210 inch	Current	Voltage	4,000 pcs/reel
SMD: surface mount device	0.75A		

Tape & reel packaging per EIA481-1

Labeling Information



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