

APPROVAL SHEET

MODEL NO.: SMD1210-075-13.2V

CUSTOMER:

CUSTOMER'S APPROVAL:

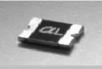
AUTHORIZED SIGNATURE/STAMP:

DATE

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

SEA & LAND ELECTRONIC CORP.



SMD1210-075-13.2V

Features

Surface Mount Devices

Lead free device

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

Size 3.2*2.5mm/0.12*0.10 inch protected, including:

 Surface Mount packaging for automated assembly

Computer mother board, Modem. Telecommunication equipments.

Applications

Alpha-Top (Sea&Land Alliance)

Performance	Specification

Model	Model Marking	V _{max} I _{max}	I _{max}	I _{hold} I _{trip}		P _d	Maximum Time To Trip		Resistance	
Model	Warking			@25°C	@25°C	Тур.	Current	Time	Ri _{min}	R1 _{max}
		(Vdc)	(A)	(A)	(A)	(W)	(A)	(Sec)	(Ω)	(Ω)
SMD1210-075	-13.2V α G	13.2	100	0.75	1.50	0.6	8.0	0.10	0.070	0.400
Ihold = Hold C	urrent. Maximum curre	nt device will n	ot trip in 25°C	still air.						
Itrip = Trip Cu	rrent. Minimum current	at which the d	evice will alwa	ys trip in 25°C	still air.					
Vmax = Maxim	um operating voltage of	levice can with	stand without o	lamage at rate	d current (Ima)	().				
Imax = Maxim	um fault current device	e can withstand	without dama	ge at rated volt	age (Vmax).					
Pd = Power	dissipation when devic	e is in the trippe	ed state in 25°	C still air enviro	onment at rated	l voltage.				
Rimin/max = N	Rimin/max = Minimum/Maximum device resistance prior to tripping at 25°C.									
R1 _{max} = Maxim	num device resistance	is measured on	e hour post re	flow.						
CAUTION : Ope	eration beyond the spe	cified ratings m	ay result in da	mage and poss	sible arcing and	d 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 trippe	ed state is 125 °C	

AGENCY APPROVALS :

Regulation/Standard:



2002/95/EC EN14582

UL pending

Ihold Versus Temperature

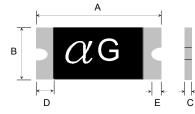
Model			Maximum an	nbient operatin	operating temperature (T _{mao}) vs. hold current (I _{hold})							
Model	-40°C	-20°C	0°C	25°C	40°C	50°C	60°C	70°C	85°C			
SMD1210-075-13.2V	1.00	0.97	0.86	0.75	0.64	0.59	0.54	0.48	0.40			

SMD1210-075-13.2V

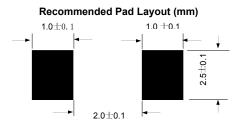
Alpha-Top (Sea&Land Alliance)

Construction And Dimension (Unit:mm)										
Model		4	ВС			0	D E			
woder	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Min.		
SMD1210-075-13.2V	3.00	3.43	2.35	2.80	0.30	0.80	0.30	0.10		

Dimensions & Marking







Termination Pad Characteristics

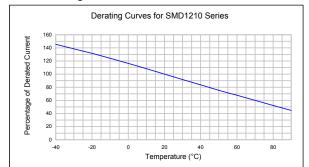
Terminal pad materials : Terminal pad solderability :

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

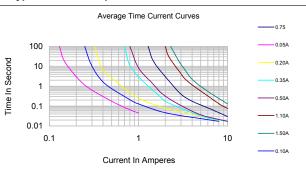
Rework

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 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.

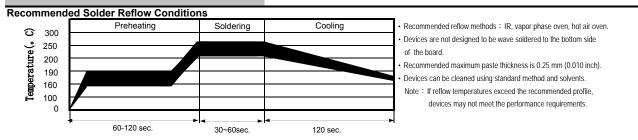
Avoid impact PPTC device its thermal expansion like placed under pressure or installed in limited space

· 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.

· 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.

SMD1210-075-13.2V

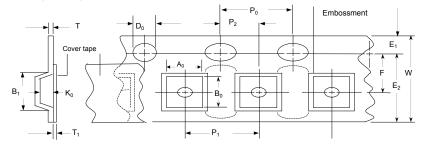
Alpha-Top (Sea&Land Alliance)



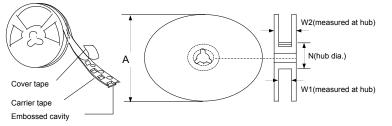
Tape And Reel Specifications (mm)

EIA Tape Component Dimensions

	FIA 404 0
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
КО	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 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

Order Information			Packaging
SMD1210	075	-13.2V	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

