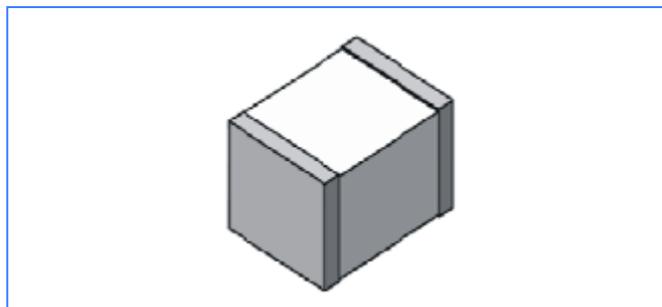


GDT SMD1210 Series

Features

- Small size Design ELA 1210 (3.2*2.5*2.5)
- Current Handling Capability 1KA@8/20 μs
- Low capacitance and Insertion Loss
- Fast Response and Long Service Life
- Reliable to Protect Electrostatic Surge
- Moisture Sensitivity level: Level 1



Applications

- Coaxial
- Ethernet
- RS485/232/422

Product Characteristics

Lead Material: Copper
 Body Material: Ceramics
 Terminal Finish: 100% Matte-Tin Plated

Electrical Characteristics (TA = 25 °C unless otherwise noted)

Part Number	DC Breakdown Voltage	Impulse Spark-over Voltage	Impulse Discharge Voltage		Arc Voltage	Insulation Resistance	C(1MHz)
	100V/S	1KV/ μs	10/700 μs	8/20 μs	At 1A		VDC=0.5V
SMD1210-091	63-117V	≤700V	6000V	1000A	~8V	≥1Gohm@DC50V	≤0.5pf
SMD1210-201	160-240V	≤800V	6000V	1000A	~10V	≥1Gohm@DC100V	≤0.5pf
SMD1210-301	240-360V	≤850V	6000V	1000A	~10V	≥1Gohm@DC100V	≤0.5pf
SMD1210-401	360-580V	≤950V	6000V	1000A	~10V	≥1Gohm@DC100V	≤0.5pf

Operating And Storage Temperature: -40~90°C

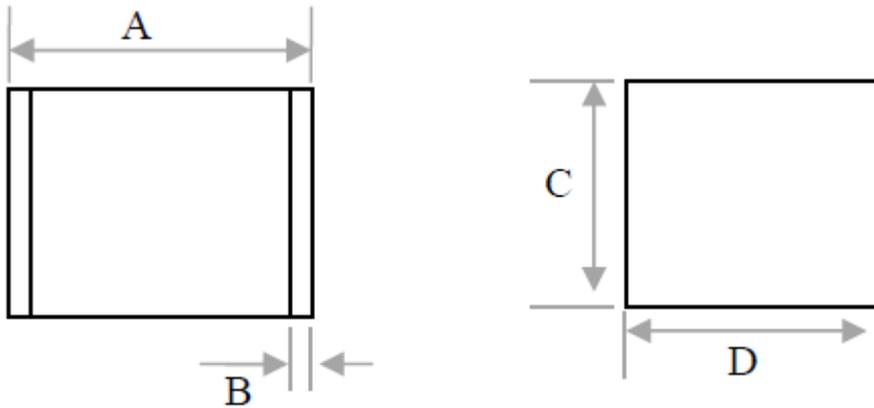
Environmental Reliability Characteristics

Testing items	Technical standards
High temperature Storage Test	Temperature:90°C Time:2H
Low temperature Storage Test	Temperature:-40°C Time:2H
Vibration	Frequency: 10-500Hz Amplitude: 0.15mm Time:45min
Resistance of soldering heat	Temperature:260±5°C Time of dip soldering: 10s,1time

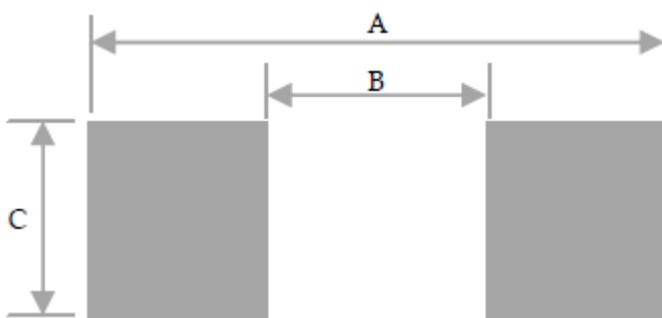
Solderability test

solderability	Solder Pot Temperature	245±5°C
	Solder Dwell Time	4-6seconds

Product Dimensions 2.5

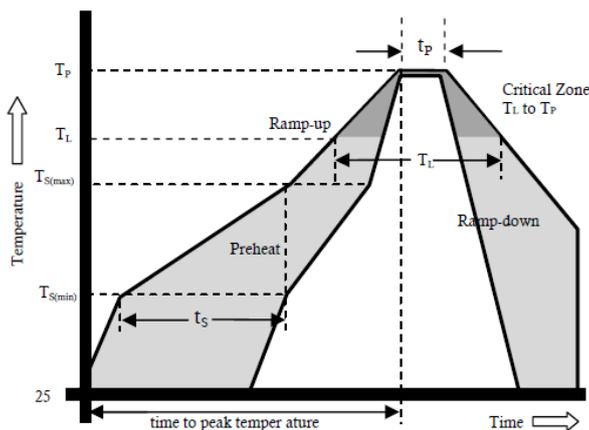


REF	mm	inch
A	3.2±0.3	0.126±0.013
B	0.3±0.2	0.013±0.008
C	2.5±0.2	0.098±0.008
D	2.5±0.2	0.098±0.008



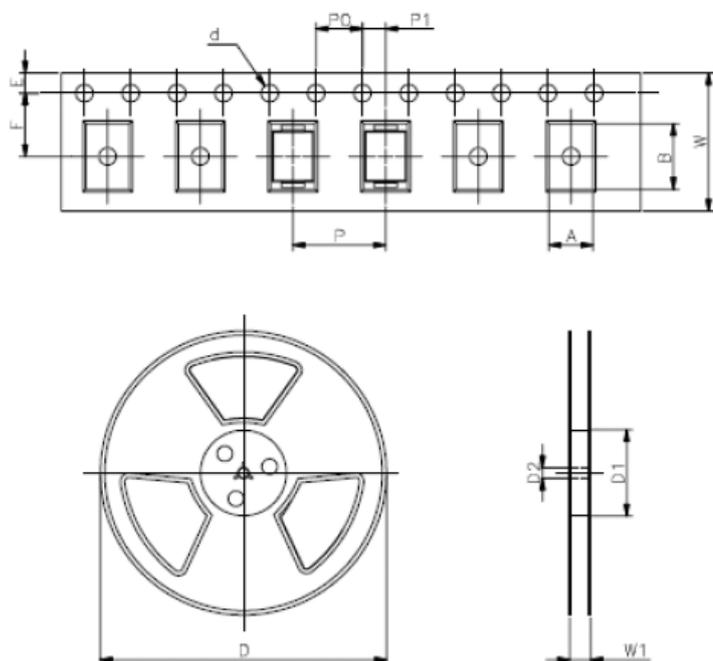
REF	mm	inch
A	4.5	0.177
B	2.0	0.079
C	2.8	0.110

Reflow Profile



Reflow Condition		Pb-free assembly
Pre Hrat	Temperature Min	150°C
	Temperature Max	200°C
	Time (Min to Max)	60-180 Secs
Average ramp up rate(Liquids)Tamp (TL) to Peal		3°C/Second max
TS(max) to TL-Ramp-up Rate		3°C/Second max
Reflow	-temperature(TL) (Liquids)	217°C
	-Temperature(TL)	60-150seconds
Peak Temperature(Tp)		260+0/-5°C
Time within 5°C of actual peak Temperature(Tp)		~10seconds
Ramp-down Rate		6°C/second max
Time 25°C to peak		8 minutes Max
Do not exceed		260°C

Package Reel Information



REF	mm	inch
A	2.8±0.1	0.110±0.004
B	3.5±0.1	0.138±0.004
d	Φ1.5±0.1	Φ0.059±0.004
P0	4.0±0.1	0.157±0.004
P1	2.0±0.1	0.079±0.004
P	8.0±0.1	0.315±0.004
E	1.75±0.1	0.069±0.004
F	5.5±0.1	0.217±0.004
W	12.0±0.2	0.472±0.008
D	Φ330.0	Φ13.0
D1	Φ50Min	Φ1.97Min
D2	Φ13±0.15	0.512±0.006
W1	16.8±2.0	0.661±0.079

Outline	Reel (pcs)	Per Carton	Reel Diameter (mm)	Carton Size(mm)		
				L	W	H
TAPING	2000	3200	330	360	360	385

Disclaimer

Specifications are subject to change without notice.

The device characteristics and parameters in this data sheet can and do vary in different applications and actual device performance may vary over time.

Users should verify actual device performance in their specific applications.