



**Electrical Characteristics**

Part Number	DC Spark-over Voltage <sup>1) 2)</sup> @100V/S	Impulse Spark-over Voltage		Insulation Resistance <sup>3)</sup>	Capacitance @1MHz	Life Ratings				
		100V/μS	1KV/μS			Impulse Discharge Current @8/20μS		AC Discharge Current	Impulse Withstanding Voltage Capacity @10/700μS, 40W ±5 times	Impulse Life @10/1000μS 10A
		Max	Max			Nominal ±5 times	Max 1 time	Nominal 5 times		Min
		V	V	V	GΩ	pF	KA	KA	A	KV
SMD3225-075N	75±30%	500	600	1	0.5	1	1.5	1	6	100
SMD3225-090N	90±30%	500	600	1	0.5	1	1.5	1	6	100
SMD3225-120N	120±30%	500	600	1	0.5	1	1.5	1	6	100
SMD3225-150N	150±30%	500	600	1	0.5	1	1.5	1	6	100
SMD3225-200N	200±30%	600	700	1	0.5	1	1.5	1	6	100
SMD3225-230N	230±30%	600	700	1	0.5	1	1.5	1	6	100
SMD3225-300N	300±30%	700	800	1	0.5	1	1.5	1	6	100
SMD3225-350N	350±30%	800	900	1	0.5	1	1.5	1	6	100
SMD3225-400N	400±30%	850	950	1	0.5	1	1.5	1	6	100
SMD3225-470N	470±30%	900	1000	1	0.5	1	1.5	1	6	100
SMD3225-500N	500±30%	1000	1100	1	0.5	1	1.5	1	6	100
SMD3225-600N	600±30%	1100	1200	1	0.5	1	1.5	1	6	100
Glow Voltage at 10mA.....					~60V					
Arc Voltage at 1A.....					~10V					
Glow to Arc transition Current.....					~0.2A					
Weight.....					~0.095g					
Operation and storage temperature.....					-40~90°C					
Climatic category (IEC 60068-1).....					40/090/21					
Marking.....					Without					
Surface treatment.....					Matte-tin plated					

<sup>1)</sup> At delivery AQL 0.65 level II, DIN ISO 2859

<sup>2)</sup> In ionized mode

<sup>3)</sup> Insulation Resistance Measuring Voltage:

70V and 75V at DC 25V

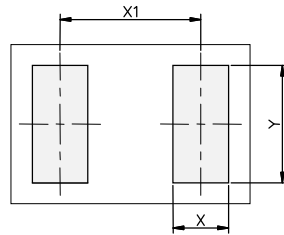
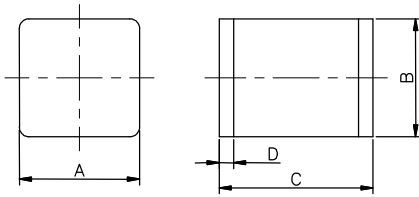
90V~150V at DC 50V

Other at DC 100V

Terms in accordance with ITU-T Rec. K.12, IEC 61643-311, GB/T 9043.



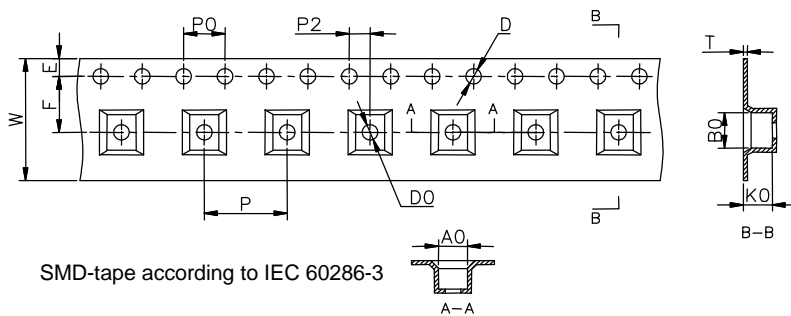
**Dimensions**



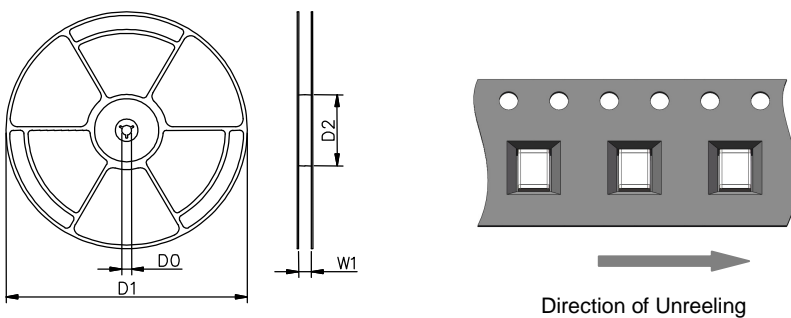
Recommended Soldering Pad Layout

Symbol	Millimeters	Inches
A	2.5±0.2	0.098±0.008
B	2.5±0.2	0.098±0.008
C	3.2±0.3	0.126±0.012
D	0.3±0.1	0.012±0.004
X	1.3	0.051
X1	3.3	0.130
Y	2.8	0.110

**Taping and Reel Specifications**



SMD-tape according to IEC 60286-3



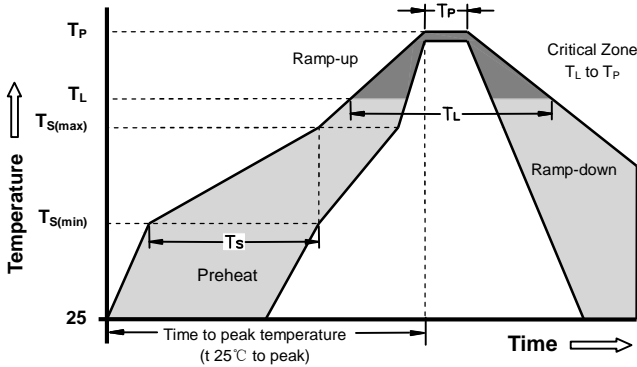
Symbol	Millimeters	Inches
W	12±0.3	0.472±0.012
A0	2.8±0.1	0.110±0.004
B0	3.5±0.1	0.138±0.004
K0	2.8±0.1	0.110±0.004
P	8.0±0.1	0.315±0.004
F	5.5±0.1	0.217±0.004
E	1.75±0.1	0.069±0.004
D	1.5+0.1/-0.0	0.059+0.004/-0.0
P0	4±0.1	0.157±0.004
P2	2±0.1	0.079±0.004
T	0.35±0.05	0.014±0.002
D0	13.3±0.15	0.524±0.006
D1	330±2	12.992±0.079
D2	100+1/-2	3.937+0.039/-0.079
W1	12.5±0.4	0.492±0.016

**Packaging Quantity:**

- 2,500 PCS per reel (13")
- 3 reels per inner box
- 7,500 PCS per inner box



**Soldering Parameters - Reflow Soldering (Surface Mount Devices)**



<b>Reflow Condition</b>		Pb - Free assembly
<b>Pre Heat</b>	-Temperature Min ( $T_{s(min)}$ )	150°C
	-Temperature Max ( $T_{s(max)}$ )	200°C
	- Time (min to max) ( $t_s$ )	60 -180 Seconds
<b>Average ramp up rate ( Liquids Temp <math>T_L</math>) to peak</b>		3°C/second max
<b><math>T_{s(max)}</math> to <math>T_L</math> - Ramp-up Rate</b>		5°C/second max
<b>Reflow</b>	- Temperature ( $T_L$ ) (Liquids)	217°C
	- Time (min to max) ( $t_s$ )	60 -150 Seconds
<b>Peak Temperature (<math>T_P</math>)</b>		260 +0/-5°C
<b>Time within 5°C of actual peak Temperature (<math>t_p</math>)</b>		10 - 30 Seconds
<b>Ramp-down Rate</b>		6°C/second max
<b>Time 25°C to peak Temperature (<math>T_P</math>)</b>		8 minutes Max
<b>Do not exceed</b>		260°C

Surface mounted components (SMD) may exhibit a temporary increase in the DC spark-over voltage after the solder reflow process. The components will recover within 24 hours. There is no quality defect nor change in protection levels during the temporary change in DC spark-over voltage.



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