

»Performance Specification

Model	Marking	V _{max}	I _{max}	I _{hold}	I _{trip}	P _d	Maximum		Resistance	
							Time To Trip		R _{i min}	R _{1max}
							Current	Time	(Ω)	(Ω)
		(V dc)	(A)	@25°C (A)	@25°C (A)	Typ. (W)	(A)	(Sec)	(Ω)	(Ω)
SMD0603-001N	X	60	20	0.01	0.03	0.5	0.2	1.00	15.000	100.000
SMD0603-002/60N	Y	60	20	0.02	0.06	0.5	0.2	1.00	12.000	70.000
SMD0603-002N	Y	9	20	0.02	0.06	0.5	0.2	1.00	12.000	70.000
SMD0603-003/30N	Z	30	20	0.03	0.09	0.5	0.2	1.00	6.000	50.000
SMD0603-003N	Z	9	20	0.03	0.09	0.5	0.2	1.00	6.000	50.000
SMD0603-004N	-	24.0	20	0.04	0.12	0.5	0.20	1.00	4.000	40.000
SMD0603-005/15N	-	15.0	20	0.05	0.15	0.5	0.25	1.00	3.800	30.000
SMD0603-005N	-	9.0	20	0.05	0.15	0.5	0.25	1.00	3.800	30.000
SMD0603-010/15N	1	15.0	35	0.10	0.30	0.5	0.5	1.00	0.900	6.000
SMD0603-010N	1	9.0	35	0.10	0.30	0.5	0.5	1.00	0.900	6.000
SMD0603-020N	2	9.0	35	0.20	0.50	0.5	1.0	0.60	0.550	3.500
SMD0603-020/16N	2	16.0	35	0.20	0.50	0.5	1.0	0.60	0.550	3.500
SMD0603-025N	2	9.0	35	0.25	0.55	0.5	8.0	0.08	0.500	3.000
SMD0603-025/16N	2	16.0	35	0.25	0.55	0.5	8.0	0.08	0.500	3.000
SMD0603-035N	3	6.0	35	0.35	0.75	0.5	8.0	0.10	0.200	1.000
SMD0603-040N	5	6.0	35	0.40	0.80	0.5	8.0	0.10	0.150	0.900
SMD0603-050N	5	6.0	35	0.50	1.00	0.5	8.0	0.10	0.100	0.800
SMD0603-050/12N	5	12.0	35	0.50	1.00	0.5	8.0	0.10	0.100	0.800
SMD0603-060N	7	6.0	35	0.60	1.20	0.5	8.0	0.10	0.080	0.600
SMD0603-065N	7	6.0	35	0.65	1.30	0.5	8.0	0.10	0.070	0.550
SMD0603-075N	7	6.0	35	0.75	1.40	0.5	8.0	0.10	0.060	0.450
SMD0603-100N	0	6.0	35	1.00	2.00	0.5	8.0	0.10	0.050	0.300

V_{max} = Maximum operating voltage device can withstand without damage at rated current (I_{max}).

I_{max} = Maximum fault current device can withstand without damage at rated voltage (V_{max}).

I_{hold} = Hold Current. Maximum current device will not trip in 25°C still air.

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

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

R_{i min/max} = Minimum/Maximum device resistance prior to tripping at 25°C.

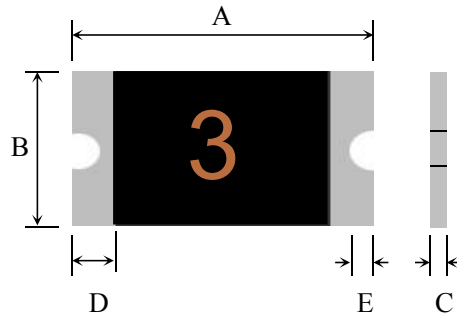
R_{1max} = Maximum device resistance is measured one hour post reflow.

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 state is 125 °C		

»Physical Dimensions(mm.)



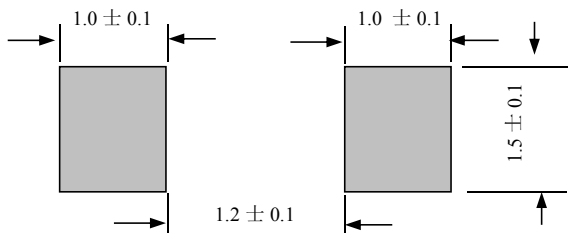
型號	A		B		C		D	E
	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Min.
SMD0603-001N	1.45	1.85	0.65	1.05	0.40	1.00	0.15	0.10
SMD0603-002N	1.45	1.85	0.65	1.05	0.35	0.75	0.15	0.10
SMD0603-003N	1.45	1.85	0.65	1.05	0.35	0.75	0.15	0.10
SMD0603-004N	1.45	1.85	0.65	1.05	0.40	1.00	0.15	0.10
SMD0603-005N	1.45	1.85	0.65	1.05	0.35	0.75	0.15	0.10
SMD0603-010N	1.45	1.85	0.65	1.05	0.35	0.75	0.15	0.10
SMD0603-020N	1.45	1.85	0.65	1.05	0.30	0.70	0.15	0.10
SMD0603-020/16N	1.45	1.85	0.65	1.05	0.40	1.00	0.15	0.10
SMD0603-025N	1.45	1.85	0.65	1.05	0.30	0.70	0.15	0.10
SMD0603-020/16N	1.45	1.85	0.65	1.05	0.40	1.00	0.15	0.10
SMD0603-035N	1.45	1.85	0.65	1.05	0.35	0.90	0.15	0.10
SMD0603-040N	1.45	1.85	0.65	1.05	0.40	0.90	0.15	0.10
SMD0603-050N	1.45	1.85	0.65	1.05	0.55	1.15	0.15	0.10
SMD0603-050/15N	1.45	1.85	0.65	1.05	0.55	1.15	0.15	0.10
SMD0603-060N	1.45	1.85	0.65	1.05	0.55	1.15	0.15	0.10
SMD0603-065N	1.45	1.85	0.65	1.05	0.55	1.15	0.15	0.10
SMD0603-075N	1.45	1.85	0.65	1.05	0.55	1.15	0.15	0.10
SMD0603-100N	1.45	1.85	0.65	1.05	0.55	1.15	0.15	0.10

Termination Pad Characteristics

Terminal pad materials: Tin-plated Nickel-Copper

Terminal pad solder ability: Meets EIA specification RS186-9E and ANSI/J-STD-002 Category 3.

»Recommended Pad Layout (mm.)



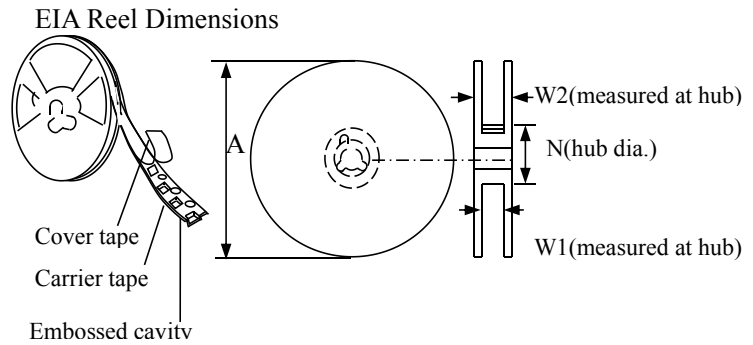
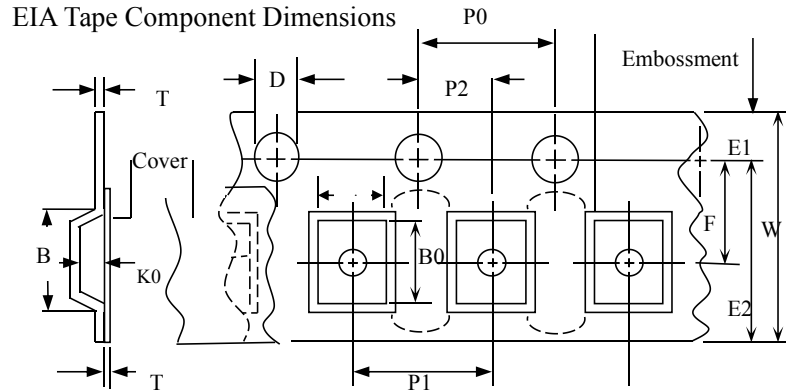
»Packaging Quantity

Part Number	Quantity
SMD0603 Series	4,000 pcs/reel

Tape & reel packaging per EIA481-1

»Tape And Reel Specifications (mm)

Governing Specifications		EIA 481-1
W		8.0 ± 0.2
P ₀		4.0 ± 0.10
P ₁		4.0 ± 0.10
P ₂		2.0 ± 0.05
A ₀		1.05 ± 0.10
B ₀		1.85 ± 0.10
D ₀		1.55 + 0.05
F		3.5 ± 0.05
E ₁		1.75 ± 0.10
E ₂ min.		6.25
T		0.20
T ₁ max.		0.1
K ₀		0.75/0.95 ± 0.1
Leader min.		390
Trailer min.		160
Reel Dimensions		
A max.		178
N min.		60
W ₁		9.0 ± 0.5
W ₂		12.0 ± 0.05
W		8.0 ± 0.2



Storage And Handling

- Storage conditions: 35°C max, 30%-60% R.H.
- Devices may not meet specified performance if storage conditions are exceeded.

»Part Number System

