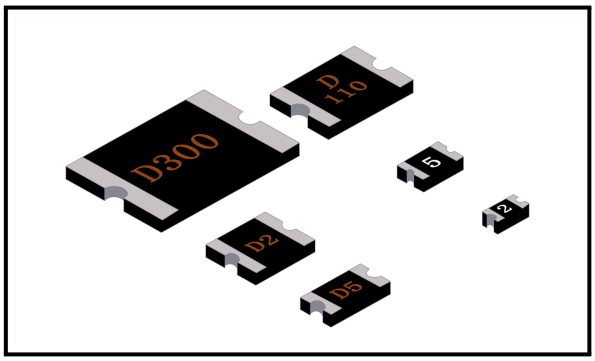
SMD1812 Series

SMD1812 Polymer PPTC

Features

- RoHS compliant and lead-free
- Halogen-free
- Fast reponse to flault current
- Symmetrical design

Package



Applications

- Li-ion/Li-Polymer battery packs
- PDA'S / digital cameras
- Computer peripherals
- PC motherboards-plug and play protection

Part Numbering

SMD 1812 -XXX /XXN

- Special Voltage Rating(Optional)
- Holding Current Rating
- Size 1812 inch
- SMD

Environmental Specifications

Operating Temperature	-40°C to +85°C
Maximum Device Surface Temperature in Tripped State	125°C
Passive Aging	+85°C, 1000 hours; ±5% typical resistance change
Humidity Aging	+85°C, 85% R.H.100 hours; ±5% typical resistance change
Thermal Shock	MIL-STD-202, Method 107; +85°C to -40°C, 20 times; -30% typical resistance change
Solvent Resistance	MIL-STD-202, Method 215; No change
Vibration	MIL-STD-883, Method 2007, Condition A; No change
Moisture Sensivity Level	Level 1, J-STD-020
Storage Conditions	+40°C Max.70% RH Max. Packed in original packaging.

SMD1812 Series

SMD1812 Polymer PPTC

Electrical Characteristics

Part Number	Marking	I_{hold} (A)	I_{trip} (A)	V_{max} (V_{dc})	I_{max} (A)	$P_{dtyp.}$ (W)	Maximum Time To Trip		R0min (ohm)	R1max (ohm)
							Current(A)	Time(Sec.)		
SMD1812-005/72N	D005	0.05	0.15	72.00	10.00	0.80	0.25	3.00	5.00	36.00
SMD1812-005/90N	D005	0.05	0.15	90.00	10.00	0.80	0.25	3.00	5.00	36.00
SMD1812-005/100N	D005	0.05	0.15	100.00	10.00	0.80	0.25	3.00	5.00	36.00
SMD1812-010/30N	D010	0.10	0.30	30.00	100.00	0.80	0.50	1.50	1.40	15.00
SMD1812-010/60N	D010	0.10	0.30	60.00	10.00	0.80	0.50	1.50	1.40	15.00
SMD1812-010/72N	D010	0.10	0.30	72.00	10.00	0.80	0.50	1.50	1.40	15.00
SMD1812-010/90N	D010	0.10	0.30	90.00	10.00	0.80	0.50	1.50	1.40	15.00
SMD1812-014/60N	D014	0.14	0.34	60.00	10.00	0.80	1.50	0.15	1.20	6.50
SMD1812-014/72N	D014	0.14	0.34	72.00	10.00	0.80	1.50	0.15	1.20	6.50
SMD1812-014/90N	D014	0.14	0.34	90.00	10.00	0.80	1.50	0.15	1.20	6.50
SMD1812-020/30N	D020	0.20	0.40	30.00	100.00	0.80	8.00	0.02	0.80	5.00
SMD1812-020/60N	D02	0.20	0.40	60.00	10.00	0.80	8.00	0.02	1.20	6.00
SMD1812-020/72N	D02	0.20	0.40	72.00	10.00	0.80	8.00	0.02	1.20	6.00
SMD1812-020/90N	D02	0.20	0.40	90.00	10.00	0.80	8.00	0.02	1.20	6.00
SMD1812-030/30N	D030	0.30	0.60	30.00	40.00	0.80	8.00	0.05	0.40	3.00
SMD1812-030/48N	D030	0.30	0.60	48.00	40.00	0.80	8.00	0.05	0.40	3.00
SMD1812-030/60N	D030	0.30	0.60	60.00	40.00	0.80	8.00	0.05	0.40	3.00
SMD1812-035/30N	D035	0.35	0.70	30.00	40.00	0.80	8.00	0.15	0.35	1.80
SMD1812-035/60N	D03	0.35	0.70	60.00	10.00	1.00	8.00	0.15	0.35	2.00
SMD1812-050/16N	D050	0.50	1.00	16.00	100.00	0.80	8.00	0.15	0.15	1.00
SMD1812-050/30N	D050	0.50	1.00	30.00	100.00	0.80	8.00	0.15	0.15	1.00
SMD1812-050/60N	D05	0.50	1.00	60.00	10.00	1.50	8.00	0.15	0.15	1.40
SMD1812-050/72N	D05	0.50	1.00	72.00	10.00	1.50	8.00	0.15	0.15	1.40
SMD1812-075/16N	D075	0.75	1.50	16.00	100.00	0.80	8.00	0.20	0.11	0.45
SMD1812-075/24N	D075	0.75	1.50	24.00	100.00	0.80	8.00	0.20	0.11	0.45
SMD1812-075/33N	D07	0.75	1.50	33.00	40.00	0.80	8.00	0.20	0.11	0.45
SMD1812-075/33SN	D075	0.75	1.50	33.00	40.00	0.80	8.00	0.20	0.11	0.45
SMD1812-075/48N	D075/48	0.75	1.50	48.00	40.00	0.80	8.00	0.20	0.11	0.45

SMD1812 Series

SMD1812 Polymer PPTC

Electrical Characteristics

Part Number	Marking	I_{hold} (A)	I_{trip} (A)	V_{max} (V_{dc})	I_{max} (A)	$P_{dtyp.}$ (W)	Maximum Time To Trip		R0min (ohm)	R1max (ohm)
							Current(A)	Time(Sec.)		
SMD1812-110/8N	D110	1.10	2.20	8.00	100.00	0.80	8.00	0.30	0.050	0.225
SMD1812-110/12N	D110	1.10	2.20	12.00	100.00	0.80	8.00	0.30	0.050	0.225
SMD1812-110/16N	D110	1.10	2.20	16.00	100.00	0.80	8.00	0.30	0.050	0.225
SMD1812-110/24N	D11	1.10	2.20	24.00	40.00	0.80	8.00	0.50	0.045	0.225
SMD1812-110/33N	D110/33	1.10	2.20	33.00	40.00	0.80	8.00	0.50	0.045	0.225
SMD1812-110/48N	D110/48	1.10	2.20	48.00	40.00	0.80	8.00	0.50	0.045	0.225
SMD1812-125/8N	D125	1.25	2.50	8.00	100.00	0.80	8.00	0.40	0.035	0.140
SMD1812-125/12N	D125	1.25	2.50	12.00	100.00	0.80	8.00	0.40	0.035	0.140
SMD1812-125/16N	D12	1.25	2.50	16.00	100.00	0.80	8.00	0.40	0.035	0.140
SMD1812-125/16SN	D125	1.25	2.50	16.00	100.00	0.80	8.00	0.40	0.035	0.140
SMD1812-125/24N	D12	1.25	2.50	24.00	100.00	0.80	8.00	0.40	0.035	0.180
SMD1812-125/33N	D125/33	1.25	2.50	33.00	100.00	0.80	8.00	0.40	0.035	0.180
SMD1812-150/8N	D150	1.50	3.00	8.00	100.00	0.80	8.00	0.30	0.030	0.120
SMD1812-150/12N	D150	1.50	3.00	12.00	100.00	0.80	8.00	0.50	0.030	0.120
SMD1812-150/16N	D15	1.50	3.00	16.00	100.00	0.80	8.00	0.50	0.030	0.120
SMD1812-150/16SN	D150	1.50	3.00	16.00	100.00	0.80	8.00	0.50	0.030	0.120
SMD1812-150/24N	D150/24	1.50	3.00	24.00	40.00	0.80	8.00	1.50	0.030	0.150
SMD1812-150/33N	D150/33	1.50	3.00	33.00	40.00	0.80	8.00	1.50	0.030	0.150
SMD1812-160/8N	D160	1.60	3.20	8.00	100.00	0.80	8.00	0.30	0.030	0.110
SMD1812-160/12N	D160	1.60	3.20	12.00	100.00	0.80	8.00	0.50	0.030	0.110
SMD1812-160/16N	D16	1.60	3.20	16.00	100.00	0.80	8.00	0.50	0.030	0.110
SMD1812-160/16SN	D160	1.60	3.20	16.00	100.00	0.80	8.00	0.50	0.030	0.110
SMD1812-160/24N	D160/24	1.60	3.20	24.00	40.00	0.80	8.00	0.50	0.030	0.130
SMD1812-160/33N	D160/33	1.60	3.20	33.00	40.00	0.80	8.00	0.50	0.030	0.130
SMD1812-200/8N	D200	2.00	4.00	8.00	100.00	0.80	8.00	2.00	0.020	0.080
SMD1812-200/12N	D20	2.00	4.00	12.00	100.00	1.00	8.00	2.00	0.020	0.080
SMD1812-200/16N	D20	2.00	4.00	16.00	100.00	1.00	8.00	2.00	0.020	0.080
SMD1812-200/24N	D200/24	2.00	4.00	24.00	100.00	1.00	8.00	2.00	0.02	0.11
SMD1812-200/30N	D200/30	2.00	4.00	30.00	100 .00	1.00	8.00	2.00	0.02	0.11

SMD1812 Series

SMD1812 Polymer PPTC

Electrical Characteristics

Part Number	Marking	I_{hold} (A)	I_{trip} (A)	V_{max} (V_{dc})	I_{max} (A)	$P_{dtyp.}$ (W)	Maximum Time To Trip		R0min (ohm)	R1max (ohm)
							Current(A)	Time(Sec.)		
SMD1812-250/8N	D250	2.50	5.00	8.00	100.00	0.80	8.00	5.00	0.015	0.075
SMD1812-250/12N	D25	2.50	5.00	12.00	100.00	0.80	8.00	5.00	0.015	0.075
SMD1812-250/16N	D250/16	2.50	5.00	16.00	100.00	1.00	8.00	5.00	0.015	0.075
SMD1812-250/24N	D250/24	2.50	5.00	24.00	40.00	1.00	8.00	5.00	0.015	0.075
SMD1812-260/8N	D260	2.60	5.20	8.00	100.00	0.80	8.00	5.00	0.015	0.075
SMD1812-260/12N	D26	2.60	5.20	12.00	100.00	0.80	8.00	5.00	0.015	0.075
SMD1812-260/16N	D260/16	2.60	5.20	16.00	100.00	1.00	8.00	5.00	0.015	0.075
SMD1812-260/24N	D260/24	2.60	5.20	24.00	40.00	1.00	8.00	5.00	0.015	0.075
SMD1812-300/12N	D300	3.00	6.00	12.00	100.00	1.00	8.00	4.00	0.012	0.060
SMD1812-300/8N	D300	3.00	6.00	8.00	100.00	1.00	8.00	4.00	0.012	0.060
SMD1812-300/16N	D300	3.00	6.00	16.00	100.00	1.00	8.00	4.00	0.012	0.060
SMD1812-300/24N	D300/24	3.00	6.00	24.00	40.00	1.00	8.00	4.00	0.012	0.060
SMD1812-350/12N	D350	3.50	7.00	12.00	100.00	1.00	10.00	4.00	0.008	0.035
SMD1812-350/6N	D35	3.50	7.00	6.00	100.00	1.00	10.00	4.00	0.008	0.035
SMD1812-350/16N	D350	3.50	7.00	16.00	100.00	1.00	10.00	4.00	0.008	0.035
SMD1812-400/6N	D400	4.00	8.00	6.00	100.00	2.00	10.00	4.00	0.005	0.025
SMD1812-400/12N	D400	4.00	8.00	12.00	100.00	2.00	10.00	4.00	0.005	0.025
SMD1812-400/16N	D400	4.00	8.00	16.00	100.00	2.00	10.00	4.00	0.005	0.025

I_{hold} : Holding Current: maximum current at which the device will not trip in 25°C still air.

I_{trip} : Tripping Current: minimum current at which the device will trip in 25° still air.

V_{max} : Maximum 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}).

$P_{dtyp.}$: Typical power dissipated from device when in the tripped state at 25°Cstill air.

R_{0min} : Minimum resistance of device in initial (un-soldered) state.

R_{1max} : Maximum resistance of device at 25°C measured one hour after tripping or reflow soldering of 260°C for 20 sec.

SMD1812 Series

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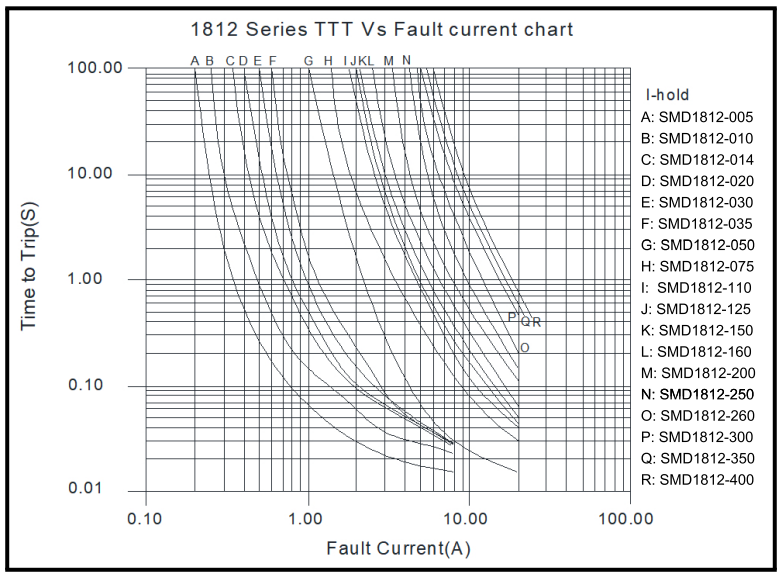
Thermal Derating Chart

Part Number	Ambient Operating Temperature								
	-40°C	-20°C	0°C	25°C	40°C	50°C	60°C	70°C	85°C
SMD1812-005	0.065	0.060	0.055	0.050	0.040	0.035	0.030	0.025	0.015
SMD1812-010	0.16	0.14	0.12	0.10	0.08	0.07	0.06	0.05	0.03
SMD1812-014	0.23	0.19	0.17	0.14	0.12	0.10	0.09	0.08	0.06
SMD1812-020	0.29	0.26	0.23	0.20	0.17	0.15	0.14	0.12	0.10
SMD1812-030	0.43	0.39	0.34	0.30	0.26	0.22	0.21	0.17	0.14
SMD1812-035	0.50	0.45	0.40	0.35	0.30	0.26	0.24	0.20	0.16
SMD1812-050	0.77	0.68	0.59	0.50	0.44	0.40	0.37	0.33	0.29
SMD1812-075	1.15	1.01	0.88	0.75	0.65	0.60	0.55	0.49	0.43
SMD1812-110	1.59	1.43	1.26	1.10	0.95	0.87	0.80	0.71	0.60
SMD1812-125	2.00	1.75	1.52	1.25	1.00	0.95	0.90	0.75	0.63
SMD1812-150	2.06	1.93	1.79	1.50	1.28	1.10	1.02	0.80	0.68
SMD1812-160	2.20	2.06	1.91	1.60	1.36	1.17	1.09	0.85	0.72
SMD1812-200	2.60	2.44	2.22	2.00	1.78	1.67	1.50	1.45	1.29
SMD1812-250	3.27	3.04	2.88	2.50	2.21	2.07	1.92	1.78	1.57
SMD1812-260	3.40	3.16	3.00	2.60	2.30	2.15	2.00	1.85	1.63
SMD1812-300	4.13	3.75	3.30	3.00	2.62	2.43	2.25	2.00	1.78
SMD1812-350	4.84	4.39	4.04	3.50	2.98	2.66	2.35	2.19	1.90
SMD1812-400	5.80	5.20	4.60	4.00	3.35	3.12	2.75	2.45	2.10

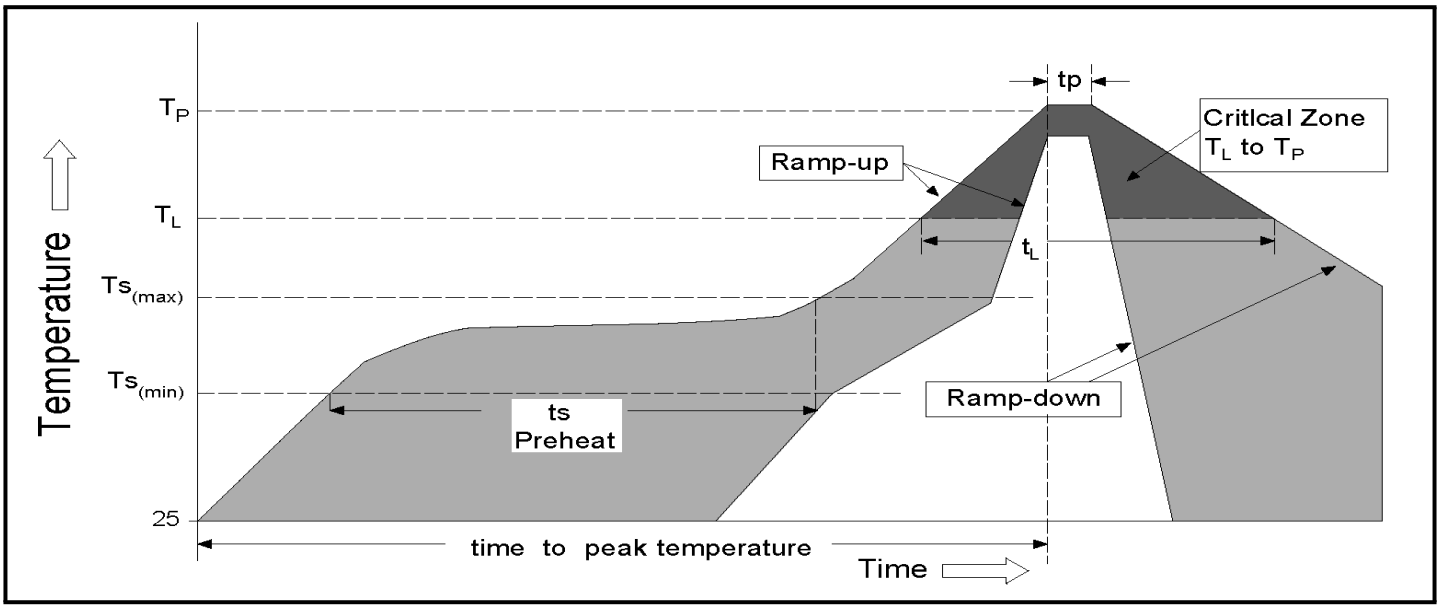
1812 Series TTT Vs Fault current chart(Typical time to trip at 25°C)



 Revision: 2025-March-1-B

SMD1812 Series

Soldering Parameters



Profile Feature		Pb-Free Assembly
Average Ramp-Up Rate ($T_{S(max)}$ toT_P)		3°C/second max
Pre Heat	Temperature Min (T_S(min))	150°C
	Temperature Max (T_S(max))	200°C
	Time (min to max) (t_S)	60 - 180 secs
Time Maintained Above	Temperature (T_L)	217°C
	Temperature (t_L)	60 -150 secs
Peak/Classification Temperature (T_P)		$260^{+0/-5}$°C
Time within 5°C of actual peak Temperature (t_p)		20-40 second
Ramp-down Rate		6°C/second max
Time 25°C to peak Temperature (T_P)		8 minutes Max.

- All temperature refer to topside of thepackage, measured on the package body surface
- If reflow temperature exceeds the recommended profile, devices may not meet the performance requirements
- Recommended reflow methods: IR, vapor phase oven, hot air oven„N2 environment for lead
- Recommended maximum paste thickness is 0.25mm (0.010inch)
- Devices can be cleaned using standard industry methods and solvents

Test Procedures And Requirements

Test	Test Conditions	Accept/Reject Criteria
R0 min	Resistance measurement at 25°C	$R0_{min} \le R \le R1_{max}$
R1 max	Resistance measurement one hour after post trip	$R0_{min} \le R \le R1_{max}$
I-hold	Hold rated current 1800 second without trip, @25°C	No trip
I-trip	Device must trip within 900 second under rated current, @25°C	Trip
Max. time to trip	At specified current, 25°C	T ≤ max. time to trip (seconds)
Trip Cycle Life	V_{max}, I_{max}, 100 cycles	No arcing or burning
Trip Endurance	V_{max}, I_{max} 24 hours	No arcing or burning
Solderability	ANSI/J-STD-002	95 % min. coverage

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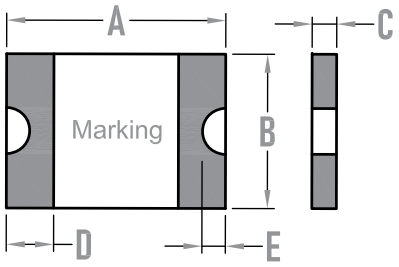
SMD1812 Series

SMD1812 Polymer PPTC

Product Dimensions(mm)



Model	A		B		C		D		E	Quantity
	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	PCS/R
SMD1812-005/72N	4.37	4.73	3.07	3.41	0.65	1.15	0.30	1.20	0.20	1500
SMD1812-005/90N	4.37	4.73	3.07	3.41	0.65	1.15	0.30	1.20	0.20	1500
SMD1812-005/100N	4.37	4.73	3.07	3.41	0.65	1.15	0.30	1.20	0.20	1500
SMD1812-010/30N	4.37	4.73	3.07	3.41	0.65	1.15	0.30	1.20	0.20	1500
SMD1812-010/60N	4.37	4.73	3.07	3.41	0.65	1.15	0.30	1.20	0.20	1500
SMD1812-010/72N	4.37	4.73	3.07	3.41	0.65	1.15	0.30	1.20	0.20	1500
SMD1812-010/90N	4.37	4.73	3.07	3.41	0.65	1.15	0.30	1.20	0.20	1500
SMD1812-014/60N	4.37	4.73	3.07	3.41	0.65	1.15	0.30	1.20	0.20	1500
SMD1812-014/72N	4.37	4.73	3.07	3.41	0.65	1.15	0.30	1.20	0.20	1500
SMD1812-014/90N	4.37	4.73	3.07	3.41	0.65	1.15	0.30	1.20	0.20	1500
SMD1812-020/30N	4.37	4.73	3.07	3.41	0.65	1.15	0.30	1.20	0.20	1500
SMD1812-020/60N	4.37	4.73	3.07	3.41	0.65	1.15	0.30	1.20	0.20	1500
SMD1812-020/72N	4.37	4.73	3.07	3.41	0.65	1.15	0.30	1.20	0.20	1500
SMD1812-020/90N	4.37	4.73	3.07	3.41	0.65	1.15	0.30	1.20	0.20	1500
SMD1812-030/30N	4.37	4.73	3.07	3.41	0.65	1.15	0.30	1.20	0.20	1500
SMD1812-030/48N	4.37	4.73	3.07	3.41	0.65	1.15	0.30	1.20	0.20	1500
SMD1812-030/60N	4.37	4.73	3.07	3.41	0.65	1.15	0.30	1.20	0.20	1500
SMD1812-035/30N	4.37	4.73	3.07	3.41	0.65	1.15	0.30	1.20	0.20	1500
SMD1812-035/60N	4.37	4.73	3.07	3.41	0.65	1.15	0.30	1.20	0.20	1000
SMD1812-050/16N	4.37	4.73	3.07	3.41	0.35	0.85	0.30	1.20	0.20	2000
SMD1812-050/30N	4.37	4.73	3.07	3.41	0.35	0.85	0.30	1.20	0.20	2000
SMD1812-050/60N	4.37	4.73	3.07	3.41	0.65	1.35	0.30	1.20	0.20	1500
SMD1812-050/72N	4.37	4.73	3.07	3.41	0.65	1.35	0.30	1.20	0.20	1500

SMD1812 Series

SMD1812 Polymer PPTC

Product Dimensions(mm)

Model	A		B		C		D		E	Quantity
	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	PCS/R
SMD1812-075/16N	4.37	4.73	3.07	3.41	0.35	0.85	0.30	1.20	0.20	2000
SMD1812-075/24N	4.37	4.73	3.07	3.41	0.35	0.85	0.30	1.20	0.20	2000
SMD1812-075/33N	4.37	4.73	3.07	3.41	0.65	1.15	0.30	1.20	0.20	1500
SMD1812-075/33SN	4.37	4.73	3.07	3.41	0.35	0.85	0.30	1.20	0.20	2000
SMD1812-075/48N	4.37	4.73	3.07	3.41	0.85	1.35	0.30	1.20	0.20	1500
SMD1812-110/8N	4.37	4.73	3.07	3.41	0.35	0.85	0.30	1.20	0.20	2000
SMD1812-110/12N	4.37	4.73	3.07	3.41	0.35	0.85	0.30	1.20	0.20	2000
SMD1812-110/16N	4.37	4.73	3.07	3.41	0.35	0.85	0.30	1.20	0.20	2000
SMD1812-110/24N	4.37	4.73	3.07	3.41	0.65	1.15	0.30	1.20	0.20	1500
SMD1812-110/33N	4.37	4.73	3.07	3.41	0.85	1.35	0.30	1.20	0.20	1000
SMD1812-110/48N	4.37	4.73	3.07	3.41	1.00	1.50	0.30	1.20	0.20	1000
SMD1812-125/8N	4.37	4.73	3.07	3.41	0.35	0.85	0.30	1.20	0.20	2000
SMD1812-125/12N	4.37	4.73	3.07	3.41	0.35	0.85	0.30	1.20	0.20	2000
SMD1812-125/16N	4.37	4.73	3.07	3.41	0.65	1.15	0.30	1.20	0.20	1500
SMD1812-125/16SN	4.37	4.73	3.07	3.41	0.35	0.85	0.30	1.20	0.20	2000
SMD1812-125/24N	4.37	4.73	3.07	3.41	0.65	1.15	0.30	1.20	0.20	1500
SMD1812-125/33N	4.37	4.73	3.07	3.41	0.85	1.35	0.30	1.20	0.20	1000
SMD1812-150/8N	4.37	4.73	3.07	3.41	0.35	0.85	0.30	1.20	0.20	2000
SMD1812-150/12N	4.37	4.73	3.07	3.41	0.35	0.85	0.30	1.20	0.20	2000
SMD1812-150/16N	4.37	4.73	3.07	3.41	0.65	1.15	0.30	1.20	0.20	1500
SMD1812-150/16SN	4.37	4.73	3.07	3.41	0.35	0.85	0.30	1.20	0.20	2000
SMD1812-150/24N	4.37	4.73	3.07	3.41	0.85	1.35	0.30	1.20	0.20	1000
SMD1812-150/33N	4.37	4.73	3.07	3.41	0.85	1.35	0.30	1.20	0.20	1000
SMD1812-160/8N	4.37	4.73	3.07	3.41	0.35	0.85	0.30	1.20	0.20	2000
SMD1812-160/12N	4.37	4.73	3.07	3.41	0.35	0.85	0.30	1.20	0.20	2000
SMD1812-160/16N	4.37	4.73	3.07	3.41	0.65	1.15	0.30	1.20	0.20	1500
SMD1812-160/16SN	4.37	4.73	3.07	3.41	0.35	0.85	0.30	1.20	0.20	2000
SMD1812-160/24N	4.37	4.73	3.07	3.41	0.85	1.35	0.30	1.20	0.20	1000
SMD1812-160/33N	4.37	4.73	3.07	3.41	0.85	1.35	0.30	1.20	0.20	1000
SMD1812-200/8N	4.37	4.73	3.07	3.41	0.35	0.85	0.30	1.20	0.20	2000
SMD1812-200/12N	4.37	4.73	3.07	3.41	0.65	1.15	0.30	1.20	0.20	1500
SMD1812-200/16N	4.37	4.73	3.07	3.41	0.65	1.15	0.30	1.20	0.20	1500
SMD1812-200/24N	4.37	4.73	3.07	3.41	0.85	1.35	0.30	1.20	0.20	1000
SMD1812-200/30N	4.37	4.73	3.07	3.41	0.85	1.35	0.30	1.20	0.20	1000

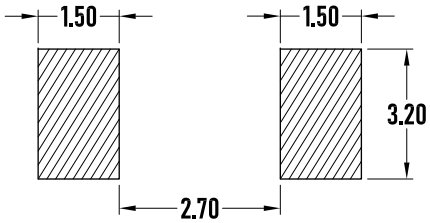
SMD1812 Series

SMD1812 Polymer PPTC

Product Dimensions(mm)

Model	A		B		C		D		E	Quantity
	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	PCS/R
SMD1812-250/8N	4.37	4.73	3.07	3.41	0.35	0.85	0.30	1.20	0.20	2000
SMD1812-250/12N	4.37	4.73	3.07	3.41	0.65	1.15	0.30	1.20	0.20	1500
SMD1812-250/16N	4.37	4.73	3.07	3.41	0.85	1.35	0.30	1.20	0.20	1000
SMD1812-250/24N	4.37	4.73	3.07	3.41	1.00	1.50	0.30	1.20	0.20	1000
SMD1812-260/8N	4.37	4.73	3.07	3.41	0.35	0.85	0.30	1.20	0.20	2000
SMD1812-260/12N	4.37	4.73	3.07	3.41	0.65	1.15	0.30	1.20	0.20	1500
SMD1812-260/16N	4.37	4.73	3.07	3.41	0.85	1.35	0.30	1.20	0.20	1000
SMD1812-260/24N	4.37	4.73	3.07	3.41	1.00	1.50	0.30	1.20	0.20	1000
SMD1812-300/12N	4.37	4.73	3.07	3.41	0.85	1.35	0.30	1.20	0.20	1000
SMD1812-300/8N	4.37	4.73	3.07	3.41	0.85	1.35	0.30	1.20	0.20	1000
SMD1812-300/16N	4.37	4.73	3.07	3.41	0.85	1.35	0.30	1.20	0.20	1000
SMD1812-300/24N	4.37	4.73	3.07	3.41	1.00	1.50	0.30	1.20	0.20	1000
SMD1812-350/12N	4.37	4.73	3.07	3.41	1.00	1.50	0.30	1.20	0.20	1000
SMD1812-350/6N	4.37	4.73	3.07	3.41	0.85	1.35	0.30	1.20	0.20	1000
SMD1812-350/16N	4.37	4.73	3.07	3.41	1.00	1.50	0.30	1.20	0.20	1000
SMD1812-400/6N	4.37	4.73	3.07	3.41	1.00	1.50	0.30	1.20	0.20	1000
SMD1812-400/12N	4.37	4.73	3.07	3.41	1.00	1.50	0.30	1.20	0.20	1000
SMD1812-400/16N	4.37	4.73	3.07	3.41	1.00	1.50	0.30	1.20	0.20	1000

Recommended Pad Layout(mm)&Physical Specifications



Terminal Material	Tin-Plated Nickle-Copper (Solder Material: Matte Tin (Sn))
Lead Solderability	T Meets EIA Specification RS186-9E, ANSI/J-STD-002 Category 3.

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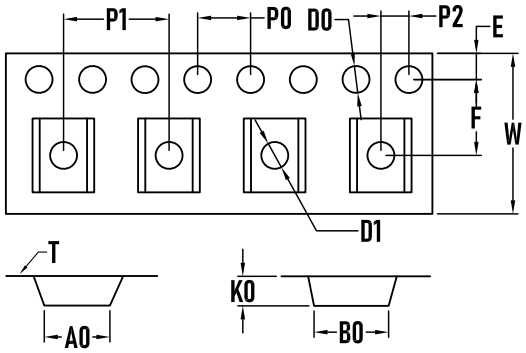
SMD1812 Series

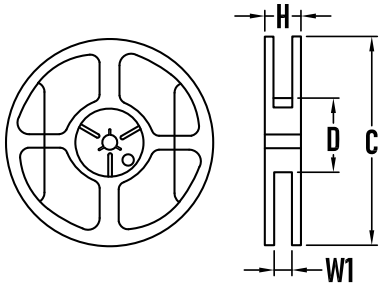
SMD1812 Polymer PPTC

Tape And Reel Specifications (mm)&Packaging quantity

item	TAPE SPECIFICATIONS: EIA-481-1 (mm)		
W	12.0±0.10	12.0±0.10	12.0±0.10
F	5.50±0.05	5.50±0.05	5.50±0.05
E	1.75±0.10	1.75±0.10	1.75±0.10
D0	1.55±0.05	1.55±0.05	1.55±0.05
D1	1.50 min	1.50 min	1.50 min
P0	4.0±0.10	4.0±0.10	4.0±0.10
P1	8.0±0.10	8.0±0.10	8.0±0.10
P2	2.0±0.05	2.0±0.05	2.0±0.05
A0	3.58±0.10	3.58±0.10	3.50±0.10
B0	4.93±0.10	4.93±0.10	4.90±0.10
T	0.25±0.05	0.25±0.05	0.25±0.05
K0	0.87±0.10	1.30±0.10	1.70±0.10
Leader	390 mm	390 mm	390 mm
Trailer	160 mm	160 mm	160 mm
Quantity	2,000pcs/Reel	1500pcs/Reel	1000pcs/Reel



Packaging quantity per Reel



REEL DIMENSIONS:EIA-481-1(mm)	
C	178±1.0
D	60.2±0.5
W1	13.2±1.5
H	16.0±0.5

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