

»Performance Specification

| Model | I-hold (A) | I-trip (A) | Vmax (Vdc) | Imax (A) | Pd typ (W) | Max. Time to trip | | R0 min (Ohm) | R1max (Ohm) |
|------------------|---------------|---------------|---------------|-------------|---------------|-------------------|----------------|-----------------|----------------|
| | | | | | | Curren (A) | Time (Sec.) | | |
| SMD1812-010/30N | 0.10 | 0.30 | 30.00 | 100.00 | 0.80 | 0.50 | 1.50 | 1.40 | 15.00 |
| SMD1812-010/60N | 0.10 | 0.30 | 60.00 | 10.00 | 0.80 | 0.50 | 1.50 | 1.40 | 15.00 |
| SMD1812-014/60N | 0.14 | 0.34 | 60.00 | 10.00 | 0.80 | 1.50 | 0.15 | 1.20 | 6.50 |
| SMD1812-020/30N | 0.20 | 0.40 | 30.00 | 100.00 | 0.80 | 8.00 | 0.02 | 0.80 | 5.00 |
| SMD1812-020/60N | 0.20 | 0.40 | 60.00 | 10.00 | 0.80 | 8.00 | 0.02 | 1.20 | 6.00 |
| SMD1812-030/30N | 0.30 | 0.60 | 30.00 | 40.00 | 0.80 | 8.00 | 0.05 | 0.40 | 3.00 |
| SMD1812-030/48N | 0.30 | 0.60 | 48.00 | 40.00 | 0.80 | 8.00 | 0.05 | 0.40 | 3.00 |
| SMD1812-030/60N | 0.30 | 0.60 | 60.00 | 40.00 | 0.80 | 8.00 | 0.05 | 0.40 | 3.00 |
| SMD1812-035/30N | 0.35 | 0.70 | 30.00 | 40.00 | 0.80 | 8.00 | 0.15 | 0.35 | 1.80 |
| SMD1812-035/60N | 0.35 | 0.70 | 60.00 | 10.00 | 1.00 | 8.00 | 0.15 | 0.35 | 2.00 |
| SMD1812-050/16N | 0.50 | 1.00 | 16.00 | 100.00 | 0.80 | 8.00 | 0.15 | 0.15 | 1.00 |
| SMD1812-050/30N | 0.50 | 1.00 | 30.00 | 100.00 | 0.80 | 8.00 | 0.15 | 0.15 | 1.00 |
| SMD1812-050/60N | 0.50 | 1.00 | 60.00 | 10.00 | 1.50 | 8.00 | 0.15 | 0.15 | 1.20 |
| SMD1812-075/16N | 0.75 | 1.50 | 16.00 | 100.00 | 0.80 | 8.00 | 0.20 | 0.11 | 0.45 |
| SMD1812-075/24N | 0.75 | 1.50 | 24.00 | 100.00 | 0.80 | 8.00 | 0.20 | 0.11 | 0.45 |
| SMD1812-075/33N | 0.75 | 1.50 | 33.00 | 40.00 | 0.80 | 8.00 | 0.20 | 0.11 | 0.45 |
| SMD1812-075/33SN | 0.75 | 1.50 | 33.00 | 40.00 | 0.80 | 8.00 | 0.20 | 0.11 | 0.45 |
| SMD1812-110/8N | 1.10 | 2.20 | 8.00 | 100.00 | 0.80 | 8.00 | 0.30 | 0.050 | 0.225 |
| SMD1812-110/12N | 1.10 | 2.20 | 12.00 | 100.00 | 0.80 | 8.00 | 0.30 | 0.050 | 0.225 |
| SMD1812-110/16N | 1.10 | 2.20 | 16.00 | 100.00 | 0.80 | 8.00 | 0.30 | 0.050 | 0.225 |
| SMD1812-110/24N | 1.10 | 2.20 | 24.00 | 40.00 | 0.80 | 8.00 | 0.50 | 0.045 | 0.225 |
| SMD1812-110/33N | 1.10 | 2.20 | 33.00 | 40.00 | 0.80 | 8.00 | 0.50 | 0.045 | 0.225 |
| SMD1812-125/8N | 1.25 | 2.50 | 8.00 | 100.00 | 0.80 | 8.00 | 0.40 | 0.035 | 0.140 |
| SMD1812-125/12N | 1.25 | 2.50 | 12.00 | 100.00 | 0.80 | 8.00 | 0.40 | 0.035 | 0.140 |
| SMD1812-125/16N | 1.25 | 2.50 | 16.00 | 100.00 | 0.80 | 8.00 | 0.40 | 0.035 | 0.140 |
| SMD1812-125/16SN | 1.25 | 2.50 | 16.00 | 100.00 | 0.80 | 8.00 | 0.40 | 0.035 | 0.140 |
| SMD1812-150/8N | 1.50 | 3.00 | 8.00 | 100.00 | 0.80 | 8.00 | 0.30 | 0.030 | 0.120 |
| SMD1812-150/12N | 1.50 | 3.00 | 12.00 | 100.00 | 0.80 | 8.00 | 0.50 | 0.030 | 0.120 |
| SMD1812-150/16N | 1.50 | 3.00 | 16.00 | 100.00 | 0.80 | 8.00 | 0.50 | 0.030 | 0.120 |
| SMD1812-150/16SN | 1.50 | 3.00 | 16.00 | 100.00 | 0.80 | 8.00 | 0.50 | 0.030 | 0.120 |
| SMD1812-150/24N | 1.50 | 3.00 | 24.00 | 40.00 | 0.80 | 8.00 | 1.50 | 0.030 | 0.150 |
| SMD1812-160/8N | 1.60 | 3.20 | 8.00 | 100.00 | 0.80 | 8.00 | 0.30 | 0.030 | 0.110 |
| SMD1812-160/12N | 1.60 | 3.20 | 12.00 | 100.00 | 0.80 | 8.00 | 0.50 | 0.030 | 0.110 |
| SMD1812-160/16N | 1.60 | 3.20 | 16.00 | 100.00 | 0.80 | 8.00 | 0.50 | 0.030 | 0.110 |

| | | | | | | | | | |
|------------------|------|------|-------|--------|------|-------|------|-------|-------|
| SMD1812-160/16SN | 1.60 | 3.20 | 16.00 | 100.00 | 0.80 | 8.00 | 0.50 | 0.030 | 0.110 |
| SMD1812-200/8N | 2.00 | 4.00 | 8.00 | 100.00 | 0.80 | 8.00 | 2.00 | 0.020 | 0.080 |
| SMD1812-200/12N | 2.00 | 4.00 | 12.00 | 100.00 | 1.00 | 8.00 | 2.00 | 0.020 | 0.080 |
| SMD1812-200/16N | 2.00 | 4.00 | 16.00 | 100.00 | 1.00 | 8.00 | 2.00 | 0.020 | 0.080 |
| SMD1812-200/24N | 2.00 | 4.00 | 24.00 | 100.00 | 1.00 | 8.00 | 2.00 | 0.02 | 0.11 |
| SMD1812-200/30N | 2.00 | 4.00 | 30.00 | 100.00 | 1.00 | 8.00 | 2.00 | 0.02 | 0.11 |
| SMD1812-250/8N | 2.50 | 5.00 | 8.00 | 100.00 | 0.80 | 8.00 | 5.00 | 0.015 | 0.075 |
| SMD1812-250/12N | 2.50 | 5.00 | 12.00 | 100.00 | 0.80 | 8.00 | 5.00 | 0.015 | 0.075 |
| SMD1812-250/16N | 2.50 | 5.00 | 16.00 | 100.00 | 1.00 | 8.00 | 5.00 | 0.015 | 0.075 |
| SMD1812-260/8N | 2.60 | 5.20 | 8.00 | 100.00 | 0.80 | 8.00 | 5.00 | 0.015 | 0.075 |
| SMD1812-260/12N | 2.60 | 5.20 | 12.00 | 100.00 | 0.80 | 8.00 | 5.00 | 0.015 | 0.075 |
| SMD1812-260/16N | 2.60 | 5.20 | 16.00 | 100.00 | 1.00 | 8.00 | 5.00 | 0.015 | 0.075 |
| SMD1812-300/12N | 3.00 | 6.00 | 12.00 | 100.00 | 1.00 | 8.00 | 4.00 | 0.012 | 0.060 |
| SMD1812-300/8N | 3.00 | 6.00 | 8.00 | 100.00 | 1.00 | 8.00 | 4.00 | 0.012 | 0.060 |
| SMD1812-300/16N | 3.00 | 6.00 | 16.00 | 100.00 | 1.00 | 8.00 | 4.00 | 0.012 | 0.060 |
| SMD1812-350/12N | 3.50 | 7.00 | 12.00 | 100.00 | 1.00 | 10.00 | 4.00 | 0.008 | 0.035 |
| SMD1812-350/6N | 3.50 | 7.00 | 6.00 | 100.00 | 1.00 | 10.00 | 4.00 | 0.008 | 0.035 |
| SMD1812-350/16N | 3.50 | 7.00 | 16.00 | 100.00 | 1.00 | 10.00 | 4.00 | 0.008 | 0.035 |
| SMD1812-400/6N | 4.00 | 8.00 | 6.00 | 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°C still air.

Vmax: 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_{d typ}: Typical power dissipated from device when in the tripped state at 25°C still air.

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

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

»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. 1000 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. |

»Test Procedures And Requirements

| No. | Test | Test Conditions | Accept/Reject Criteria |
|-----|-------------------|---|---|
| 1 | R0 min | Resistance measurement at 25°C | $R_{0min} \leq R \leq R_{1max}$ |
| 2 | R1 max | Resistance measurement one hour after post trip | $R_{0min} \leq R \leq R_{1max}$ |
| 3 | I-hold | Hold rated current 1800 second without trip, @ 25°C | No trip |
| 4 | I-trip | Device must trip within 900 second under rated current, @25°C | Trip |
| 5 | Max. time to trip | At specified current, 25°C | $T \leq \text{max. time to trip (seconds)}$ |
| 6 | Trip Cycle Life | V_{max} , I_{max} , 100 cycles | No arcing or burning |
| 7 | Trip Endurance | V_{max} , I_{max} 24 hours | No arcing or burning |
| 8 | Solderability | ANSI/J-STD-002 | 95 % min. coverage |

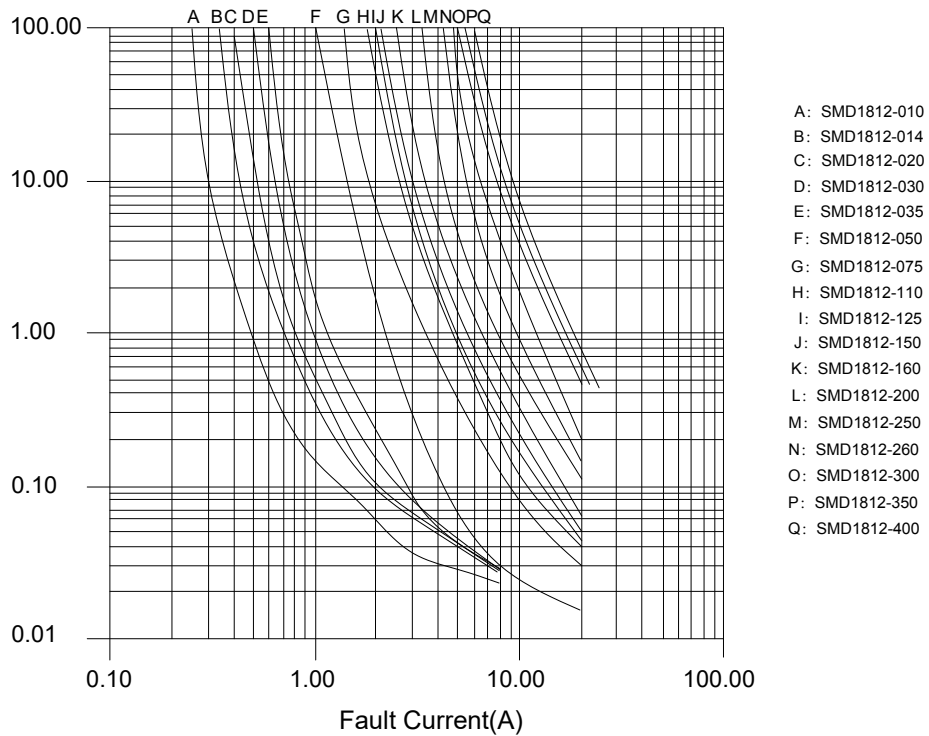
»Thermal Derading Chart Recommended Hold Current(A) at Ambient Temperature(°C)

| Model | Ambient Operating Temperature | | | | | | | | |
|-----------------|-------------------------------|-------|------|------|------|------|------|------|------|
| | -40°C | -20°C | 0°C | 25°C | 40°C | 50°C | 60°C | 70°C | 85°C |
| SMD1812-010/30N | 0.16 | 0.14 | 0.12 | 0.10 | 0.08 | 0.07 | 0.06 | 0.05 | 0.03 |
| SMD1812-010/60N | 0.16 | 0.14 | 0.12 | 0.10 | 0.08 | 0.07 | 0.06 | 0.05 | 0.03 |
| SMD1812-014/60N | 0.23 | 0.19 | 0.17 | 0.14 | 0.12 | 0.10 | 0.09 | 0.08 | 0.06 |
| SMD1812-020/30N | 0.29 | 0.26 | 0.23 | 0.20 | 0.17 | 0.15 | 0.14 | 0.12 | 0.10 |
| SMD1812-020/60N | 0.29 | 0.26 | 0.23 | 0.20 | 0.17 | 0.15 | 0.14 | 0.12 | 0.10 |
| SMD1812-030/30N | 0.43 | 0.39 | 0.34 | 0.30 | 0.26 | 0.22 | 0.21 | 0.17 | 0.14 |
| SMD1812-030/48N | 0.43 | 0.39 | 0.34 | 0.30 | 0.26 | 0.22 | 0.21 | 0.17 | 0.14 |
| SMD1812-030/60N | 0.43 | 0.39 | 0.34 | 0.30 | 0.26 | 0.22 | 0.21 | 0.17 | 0.14 |
| SMD1812-035/30N | 0.50 | 0.45 | 0.40 | 0.35 | 0.30 | 0.26 | 0.24 | 0.20 | 0.16 |
| SMD1812-035/60N | 0.50 | 0.45 | 0.40 | 0.35 | 0.30 | 0.26 | 0.24 | 0.20 | 0.16 |
| SMD1812-050/16N | 0.77 | 0.68 | 0.59 | 0.50 | 0.44 | 0.40 | 0.37 | 0.33 | 0.29 |

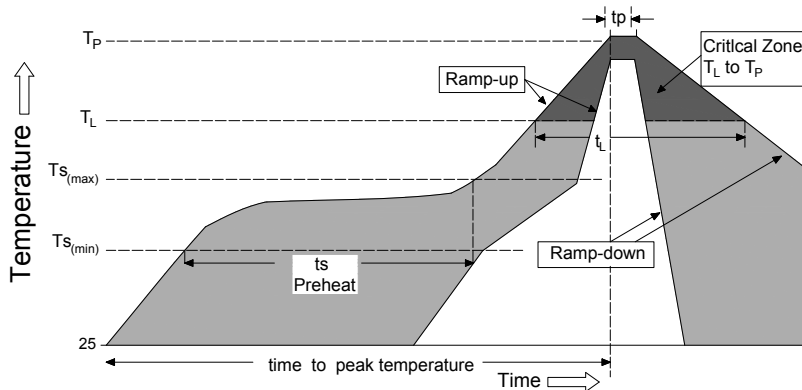
| | | | | | | | | | |
|------------------|------|------|------|------|------|------|------|------|------|
| SMD1812-050/30N | 0.77 | 0.68 | 0.59 | 0.50 | 0.44 | 0.40 | 0.37 | 0.33 | 0.29 |
| SMD1812-050/60N | 0.77 | 0.68 | 0.59 | 0.50 | 0.44 | 0.40 | 0.37 | 0.33 | 0.29 |
| SMD1812-075/16N | 1.15 | 1.01 | 0.88 | 0.75 | 0.65 | 0.60 | 0.55 | 0.49 | 0.43 |
| SMD1812-075/24N | 1.15 | 1.01 | 0.88 | 0.75 | 0.65 | 0.60 | 0.55 | 0.49 | 0.43 |
| SMD1812-075/33N | 1.15 | 1.01 | 0.88 | 0.75 | 0.65 | 0.60 | 0.55 | 0.49 | 0.43 |
| SMD1812-075/33SN | 1.15 | 1.01 | 0.88 | 0.75 | 0.65 | 0.60 | 0.55 | 0.49 | 0.43 |
| SMD1812-110/8N | 1.59 | 1.43 | 1.26 | 1.10 | 0.95 | 0.87 | 0.80 | 0.71 | 0.60 |
| SMD1812-110/12N | 1.59 | 1.43 | 1.26 | 1.10 | 0.95 | 0.87 | 0.80 | 0.71 | 0.60 |
| SMD1812-110/16N | 1.59 | 1.43 | 1.26 | 1.10 | 0.95 | 0.87 | 0.80 | 0.71 | 0.60 |
| SMD1812-110/24N | 1.59 | 1.43 | 1.26 | 1.10 | 0.95 | 0.87 | 0.80 | 0.71 | 0.60 |
| SMD1812-110/33N | 1.59 | 1.43 | 1.26 | 1.10 | 0.95 | 0.87 | 0.80 | 0.71 | 0.60 |
| SMD1812-125/8N | 2.00 | 1.75 | 1.52 | 1.25 | 1.00 | 0.95 | 0.90 | 0.75 | 0.53 |
| SMD1812-125/12N | 2.00 | 1.75 | 1.52 | 1.25 | 1.00 | 0.95 | 0.90 | 0.75 | 0.53 |
| SMD1812-125/16N | 2.00 | 1.75 | 1.52 | 1.25 | 1.00 | 0.95 | 0.90 | 0.75 | 0.53 |
| SMD1812-125/16SN | 2.00 | 1.75 | 1.52 | 1.25 | 1.00 | 0.95 | 0.90 | 0.75 | 0.53 |
| SMD1812-150/8N | 2.06 | 1.93 | 1.79 | 1.50 | 1.28 | 1.10 | 1.02 | 0.80 | 0.68 |
| SMD1812-150/12N | 2.06 | 1.93 | 1.79 | 1.50 | 1.28 | 1.10 | 1.02 | 0.80 | 0.68 |
| SMD1812-150/16N | 2.06 | 1.93 | 1.79 | 1.50 | 1.28 | 1.10 | 1.02 | 0.80 | 0.68 |
| SMD1812-150/16SN | 2.06 | 1.93 | 1.79 | 1.50 | 1.28 | 1.10 | 1.02 | 0.80 | 0.68 |
| SMD1812-150/24N | 2.06 | 1.93 | 1.79 | 1.50 | 1.28 | 1.10 | 1.02 | 0.80 | 0.68 |
| SMD1812-160/8N | 2.20 | 2.06 | 1.91 | 1.60 | 1.36 | 1.17 | 1.09 | 0.85 | 0.72 |
| SMD1812-160/12N | 2.20 | 2.06 | 1.91 | 1.60 | 1.36 | 1.17 | 1.09 | 0.85 | 0.72 |
| SMD1812-160/16N | 2.20 | 2.06 | 1.91 | 1.60 | 1.36 | 1.17 | 1.09 | 0.85 | 0.72 |
| SMD1812-160/16SN | 2.20 | 2.06 | 1.91 | 1.60 | 1.36 | 1.17 | 1.09 | 0.85 | 0.72 |
| SMD1812-200/8N | 2.60 | 2.44 | 2.22 | 2.00 | 1.78 | 1.67 | 1.50 | 1.45 | 1.29 |
| SMD1812-200/12N | 2.60 | 2.44 | 2.22 | 2.00 | 1.78 | 1.67 | 1.50 | 1.45 | 1.29 |
| SMD1812-200/16N | 2.60 | 2.44 | 2.22 | 2.00 | 1.78 | 1.67 | 1.50 | 1.45 | 1.29 |
| SMD1812-200/24N | 2.60 | 2.44 | 2.22 | 2.00 | 1.78 | 1.67 | 1.50 | 1.45 | 1.29 |
| SMD1812-200/30N | 2.60 | 2.44 | 2.22 | 2.00 | 1.78 | 1.67 | 1.50 | 1.45 | 1.29 |
| SMD1812-250/8N | 3.27 | 3.04 | 2.88 | 2.50 | 2.21 | 2.07 | 1.92 | 1.78 | 1.57 |
| SMD1812-250/12N | 3.27 | 3.04 | 2.88 | 2.50 | 2.21 | 2.07 | 1.92 | 1.78 | 1.57 |
| SMD1812-250/16N | 3.27 | 3.04 | 2.88 | 2.50 | 2.21 | 2.07 | 1.92 | 1.78 | 1.57 |
| SMD1812-260/8N | 3.40 | 3.16 | 3.00 | 2.60 | 2.30 | 2.15 | 2.00 | 1.85 | 1.63 |
| SMD1812-260/12N | 3.40 | 3.16 | 3.00 | 2.60 | 2.30 | 2.15 | 2.00 | 1.85 | 1.63 |
| SMD1812-260/16N | 3.40 | 3.16 | 3.00 | 2.60 | 2.30 | 2.15 | 2.00 | 1.85 | 1.63 |
| SMD1812-300/12N | 4.13 | 3.75 | 3.30 | 3.00 | 2.62 | 2.43 | 2.25 | 2.00 | 1.78 |
| SMD1812-300/8N | 4.13 | 3.75 | 3.30 | 3.00 | 2.62 | 2.43 | 2.25 | 2.00 | 1.78 |
| SMD1812-300/16N | 4.13 | 3.75 | 3.30 | 3.00 | 2.62 | 2.43 | 2.25 | 2.00 | 1.78 |
| SMD1812-350/12N | 4.84 | 4.39 | 4.04 | 3.50 | 2.98 | 2.66 | 2.35 | 1.88 | 1.55 |
| SMD1812-350/6N | 4.84 | 4.39 | 4.04 | 3.50 | 2.98 | 2.66 | 2.35 | 1.88 | 1.55 |
| SMD1812-350/16N | 4.84 | 4.39 | 4.04 | 3.50 | 2.98 | 2.66 | 2.35 | 1.88 | 1.55 |
| SMD1812-400/6N | 5.80 | 5.20 | 4.60 | 4.00 | 3.35 | 3.12 | 2.75 | 2.45 | 2.10 |

»Typical time to trip at 25°C

1812 Series TTT Vs Fault current chart



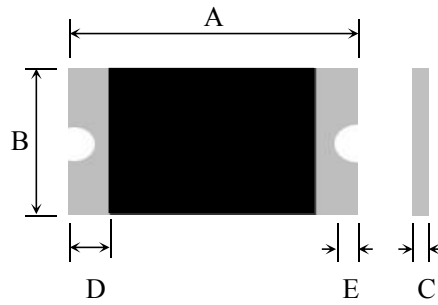
»Soldering Parameters



| Profile Feature | | Pb-Free Assembly |
|--|----------------------------------|-------------------------|
| Average Ramp-Up Rate ($T_{S(max)}$ to T_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 seconds |
| Peak / Classification Temperature (T_P) | | 260 ^{+0/-5} °C |
| Time within 5°C of actual peak Temperature (t_p) | | 20 – 40 seconds |
| Ramp-down Rate | | 6°C/second max |
| Time 25°C to peak Temperature (T_P) | | 8 minutes Max. |

- ◆All temperature refer to topside of the package, 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

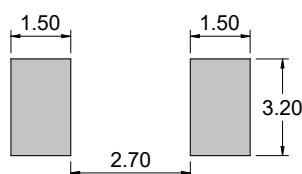
»Physical Dimensions(mm)



| Model | A | | B | | C | | D | | E |
|------------------|------|------|------|------|------|------|------|------|------|
| | Min | Max | Min | Max | Min | Max | Min | Max | Min |
| SMD1812-010/30N | 4.37 | 4.73 | 3.07 | 3.41 | 0.65 | 1.15 | 0.30 | 1.20 | 0.20 |
| SMD1812-010/60N | 4.37 | 4.73 | 3.07 | 3.41 | 0.65 | 1.15 | 0.30 | 1.20 | 0.20 |
| SMD1812-014/60N | 4.37 | 4.73 | 3.07 | 3.41 | 0.65 | 1.15 | 0.30 | 1.20 | 0.20 |
| SMD1812-020/30N | 4.37 | 4.73 | 3.07 | 3.41 | 0.65 | 1.15 | 0.30 | 1.20 | 0.20 |
| SMD1812-020/60N | 4.37 | 4.73 | 3.07 | 3.41 | 0.65 | 1.15 | 0.30 | 1.20 | 0.20 |
| SMD1812-030/30N | 4.37 | 4.73 | 3.07 | 3.41 | 0.65 | 1.15 | 0.30 | 1.20 | 0.20 |
| SMD1812-030/48N | 4.37 | 4.73 | 3.07 | 3.41 | 0.65 | 1.15 | 0.30 | 1.20 | 0.20 |
| SMD1812-030/60N | 4.37 | 4.73 | 3.07 | 3.41 | 0.65 | 1.15 | 0.30 | 1.20 | 0.20 |
| SMD1812-035/30N | 4.37 | 4.73 | 3.07 | 3.41 | 0.65 | 1.15 | 0.30 | 1.20 | 0.20 |
| SMD1812-035/60N | 4.37 | 4.73 | 3.07 | 3.41 | 1.00 | 1.50 | 0.30 | 1.20 | 0.20 |
| SMD1812-050/16N | 4.37 | 4.73 | 3.07 | 3.41 | 0.35 | 0.85 | 0.30 | 1.20 | 0.20 |
| SMD1812-050/30N | 4.37 | 4.73 | 3.07 | 3.41 | 0.35 | 0.85 | 0.30 | 1.20 | 0.20 |
| SMD1812-050/60N | 4.37 | 4.73 | 3.07 | 3.41 | 1.00 | 1.50 | 0.30 | 1.20 | 0.20 |
| SMD1812-075/16N | 4.37 | 4.73 | 3.07 | 3.41 | 0.35 | 0.85 | 0.30 | 1.20 | 0.20 |
| SMD1812-075/24N | 4.37 | 4.73 | 3.07 | 3.41 | 0.35 | 0.85 | 0.30 | 1.20 | 0.20 |
| SMD1812-075/33N | 4.37 | 4.73 | 3.07 | 3.41 | 0.65 | 1.15 | 0.30 | 1.20 | 0.20 |
| SMD1812-075/33SN | 4.37 | 4.73 | 3.07 | 3.41 | 0.35 | 0.85 | 0.30 | 1.20 | 0.20 |
| SMD1812-110/8N | 4.37 | 4.73 | 3.07 | 3.41 | 0.35 | 0.85 | 0.30 | 1.20 | 0.20 |
| SMD1812-110/12N | 4.37 | 4.73 | 3.07 | 3.41 | 0.35 | 0.85 | 0.30 | 1.20 | 0.20 |
| SMD1812-110/16N | 4.37 | 4.73 | 3.07 | 3.41 | 0.35 | 0.85 | 0.30 | 1.20 | 0.20 |
| SMD1812-110/24N | 4.37 | 4.73 | 3.07 | 3.41 | 0.65 | 1.15 | 0.30 | 1.20 | 0.20 |
| SMD1812-110/33N | 4.37 | 4.73 | 3.07 | 3.41 | 0.85 | 1.35 | 0.30 | 1.20 | 0.20 |
| SMD1812-125/8N | 4.37 | 4.73 | 3.07 | 3.41 | 0.35 | 0.85 | 0.30 | 1.20 | 0.20 |
| SMD1812-125/12N | 4.37 | 4.73 | 3.07 | 3.41 | 0.35 | 0.85 | 0.30 | 1.20 | 0.20 |
| SMD1812-125/16N | 4.37 | 4.73 | 3.07 | 3.41 | 0.65 | 1.15 | 0.30 | 1.20 | 0.20 |
| SMD1812-125/16SN | 4.37 | 4.73 | 3.07 | 3.41 | 0.35 | 0.85 | 0.30 | 1.20 | 0.20 |
| SMD1812-150/8N | 4.37 | 4.73 | 3.07 | 3.41 | 0.35 | 0.85 | 0.30 | 1.20 | 0.20 |
| SMD1812-150/12N | 4.37 | 4.73 | 3.07 | 3.41 | 0.35 | 0.85 | 0.30 | 1.20 | 0.20 |
| SMD1812-150/16N | 4.37 | 4.73 | 3.07 | 3.41 | 0.65 | 1.15 | 0.30 | 1.20 | 0.20 |
| SMD1812-150/16SN | 4.37 | 4.73 | 3.07 | 3.41 | 0.35 | 0.85 | 0.30 | 1.20 | 0.20 |

| | | | | | | | | | |
|------------------|------|------|------|------|------|------|------|------|------|
| SMD1812-150/24N | 4.37 | 4.73 | 3.07 | 3.41 | 0.85 | 1.35 | 0.30 | 1.20 | 0.20 |
| SMD1812-160/8N | 4.37 | 4.73 | 3.07 | 3.41 | 0.35 | 0.85 | 0.30 | 1.20 | 0.20 |
| SMD1812-160/12N | 4.37 | 4.73 | 3.07 | 3.41 | 0.35 | 0.85 | 0.30 | 1.20 | 0.20 |
| SMD1812-160/16N | 4.37 | 4.73 | 3.07 | 3.41 | 0.65 | 1.15 | 0.30 | 1.20 | 0.20 |
| SMD1812-160/16SN | 4.37 | 4.73 | 3.07 | 3.41 | 0.35 | 0.85 | 0.30 | 1.20 | 0.20 |
| SMD1812-200/8N | 4.37 | 4.73 | 3.07 | 3.41 | 0.35 | 0.85 | 0.30 | 1.20 | 0.20 |
| SMD1812-200/12N | 4.37 | 4.73 | 3.07 | 3.41 | 0.65 | 1.15 | 0.30 | 1.20 | 0.20 |
| SMD1812-200/16N | 4.37 | 4.73 | 3.07 | 3.41 | 0.65 | 1.15 | 0.30 | 1.20 | 0.20 |
| SMD1812-200/24N | 4.37 | 4.73 | 3.07 | 3.41 | 0.85 | 1.35 | 0.30 | 1.20 | 0.20 |
| SMD1812-200/30N | 4.37 | 4.73 | 3.07 | 3.41 | 0.85 | 1.35 | 0.30 | 1.20 | 0.20 |
| SMD1812-250/8N | 4.37 | 4.73 | 3.07 | 3.41 | 0.35 | 0.85 | 0.30 | 1.20 | 0.20 |
| SMD1812-250/12N | 4.37 | 4.73 | 3.07 | 3.41 | 0.65 | 1.15 | 0.30 | 1.20 | 0.20 |
| SMD1812-250/16N | 4.37 | 4.73 | 3.07 | 3.41 | 0.85 | 1.35 | 0.30 | 1.20 | 0.20 |
| SMD1812-260/8N | 4.37 | 4.73 | 3.07 | 3.41 | 0.35 | 0.85 | 0.30 | 1.20 | 0.20 |
| SMD1812-260/12N | 4.37 | 4.73 | 3.07 | 3.41 | 0.65 | 1.15 | 0.30 | 1.20 | 0.20 |
| SMD1812-260/16N | 4.37 | 4.73 | 3.07 | 3.41 | 0.85 | 1.35 | 0.30 | 1.20 | 0.20 |
| SMD1812-300/12N | 4.37 | 4.73 | 3.07 | 3.41 | 0.85 | 1.35 | 0.30 | 1.20 | 0.20 |
| SMD1812-300/8N | 4.37 | 4.73 | 3.07 | 3.41 | 0.85 | 1.35 | 0.30 | 1.20 | 0.20 |
| SMD1812-300/16N | 4.37 | 4.73 | 3.07 | 3.41 | 0.85 | 1.35 | 0.30 | 1.20 | 0.20 |
| SMD1812-350/12N | 4.37 | 4.73 | 3.07 | 3.41 | 1.00 | 1.50 | 0.30 | 1.20 | 0.20 |
| SMD1812-350/6N | 4.37 | 4.73 | 3.07 | 3.41 | 0.85 | 1.35 | 0.30 | 1.20 | 0.20 |
| SMD1812-350/16N | 4.37 | 4.73 | 3.07 | 3.41 | 1.00 | 1.50 | 0.30 | 1.20 | 0.20 |
| SMD1812-400/6N | 4.37 | 4.73 | 3.07 | 3.41 | 1.00 | 1.50 | 0.30 | 1.20 | 0.20 |

»Recommended Pad Layout (mm)&Physical Specifications



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

»Tape And Reel Specifications (mm)&Packaging quantity

| TAPE SPECIFICATIONS: EIA-481-1 (mm) | | | | | |
|-------------------------------------|------------------|------------------|-----------------|-----------------|-----------------|
| Item | SMD1812-050/16N | SMD1812-050/30N | SMD1812-010/30N | SMD1812-010/60N | SMD1812-035/60N |
| | SMD1812-075/16N | SMD1812-075/24N | SMD1812-014/60N | SMD1812-020/30N | SMD1812-050/60N |
| | SMD1812-075/33SN | SMD1812-110/8N | SMD1812-020/60N | SMD1812-030/30N | SMD1812-110/33N |
| | SMD1812-110/12N | SMD1812-110/16N | SMD1812-030/60N | SMD1812-035/30N | SMD1812-150/24N |
| | SMD1812-125/8N | SMD1812-125/12N | SMD1812-075/33N | SMD1812-110/24N | SMD1812-200/24N |
| | SMD1812-125/16SN | SMD1812-150/8N | SMD1812-125/16N | SMD1812-150/16N | SMD1812-200/30N |
| | SMD1812-150/12N | SMD1812-150/16SN | SMD1812-160/16N | SMD1812-200/12N | SMD1812-250/16N |
| | SMD1812-160/8N | SMD1812-160/12N | SMD1812-200/16N | SMD1812-250/12N | SMD1812-260/16N |
| | SMD1812-160/16SN | SMD1812-200/8N | SMD1812-260/12N | | SMD1812-300/8N |
| | SMD1812-250/8N | SMD1812-260/8N | | | SMD1812-300/12N |
| | | | | SMD1812-300/16N | |
| | | | | SMD1812-350/6N | |
| | | | | SMD1812-350/12N | |
| | | | | SMD1812-350/16N | |
| | | | | SMD1812-400/6N | |
| 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 |
| E1 | 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 | 390mm | | 390mm | | 390mm |
| Trailer | 160mm | | 160mm | | 160mm |
| Q'ty | 2,000pcs/Reel | | 1,500pcs/Reel | | 1,000pcs/Reel |

| REEL DIMENSIONS: EIA-481-1 (mm) | |
|---------------------------------|-----------|
| C | Ø178±1.0 |
| D | Ø60.2±0.5 |
| W | 13.2±1.5 |
| H | 16.0±0.5 |

