

APPROVAL SHEET

MODEL NO.: SMD1206 Series

CUSTOMER:

CUSTOMER'S APPROVAL:

AUTHORIZED SIGNATURE/STAMP

DATE

MANUFACTURER:

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Submitted by:

Approved by:

Date:

Performance Specification

| Model | Marketing | V _{max} (V dc) | I _{max} (A) | I _{hold} @25°C (A) | I _{trip} @25°C (A) | P _d Typ. (W) | Maximum Time To Trip | | Resistance | | 认证 |
|--------------------|-----------|----------------------------|-------------------------|-----------------------------------|-----------------------------------|-------------------------------|-------------------------|---------------|---------------------------|--------------------------|----|
| | | | | | | | Current (A) | Time (Sec) | R _{i min} (Ω) | R _{1max} (Ω) | UL |
| SMD1206R005SF60V | RA | 60.0 | 10 | 0.05 | 0.15 | 0.4 | 0.25 | 1.50 | 3.600 | 50.000 | |
| SMD1206R005SF | RA | 24.0 | 10 | 0.05 | 0.15 | 0.4 | 0.25 | 1.50 | 3.600 | 50.000 | ✓ |
| SMD1206R010SF60V | R1 | 60.0 | 10 | 0.10 | 0.25 | 0.4 | 0.50 | 1.00 | 1.600 | 15.000 | |
| SMD1206R010SF | R1 | 24.0 | 10 | 0.10 | 0.25 | 0.4 | 0.50 | 1.00 | 1.600 | 15.000 | ✓ |
| SMD1206R012SF60V | R1 | 60.0 | 10 | 0.12 | 0.29 | 0.4 | 0.50 | 1.00 | 1.600 | 15.000 | |
| SMD1206R012SF | R1 | 24.0 | 10 | 0.12 | 0.29 | 0.4 | 0.50 | 1.00 | 1.600 | 13.000 | ✓ |
| SMD1206R016SF33V | R2 | 33.0 | 10 | 0.16 | 0.37 | 0.4 | 1.00 | 0.30 | 1.000 | 6.000 | |
| SMD1206R016SF | R2 | 24.0 | 10 | 0.16 | 0.37 | 0.4 | 1.00 | 0.30 | 1.000 | 6.000 | ✓ |
| SMD1206R016SF16V | R2 | 16.0 | 10 | 0.16 | 0.37 | 0.4 | 1.00 | 0.30 | 1.000 | 6.000 | |
| SMD1206R020SF | R2 | 24.0 | 10 | 0.20 | 0.46 | 0.6 | 8.00 | 0.08 | 0.350 | 2.700 | ✓ |
| SMD1206R020SF30V | R2 | 30.0 | 10 | 0.20 | 0.46 | 0.6 | 8.00 | 0.08 | 0.350 | 2.700 | |
| SMD1206R020SF48V | R2 | 48.0 | 10 | 0.20 | 0.46 | 0.6 | 8.00 | 0.08 | 0.350 | 2.700 | |
| SMD1206R025SF16V | R2 | 16.0 | 10 | 0.25 | 0.50 | 0.6 | 8.00 | 0.08 | 0.350 | 2.500 | |
| SMD1206R025SF | R2 | 24.0 | 10 | 0.25 | 0.50 | 0.6 | 8.00 | 0.08 | 0.350 | 2.500 | ✓ |
| SMD1206R025SF30V | R2 | 30.0 | 10 | 0.25 | 0.50 | 0.6 | 8.00 | 0.08 | 0.350 | 2.500 | |
| SMD1206R025SF48V | R2 | 48.0 | 10 | 0.25 | 0.50 | 0.6 | 8.00 | 0.08 | 0.350 | 2.500 | |
| SMD1206R035SF | R3 | 6.0 | 35 | 0.35 | 0.75 | 0.6 | 8.00 | 0.10 | 0.250 | 1.300 | ✓ |
| SMD1206R035SF16V | R3 | 16 | 35 | 0.35 | 0.75 | 0.6 | 8.00 | 0.10 | 0.250 | 1.300 | |
| SMD1206R035SF30V | R3 | 30.0 | 35 | 0.35 | 0.75 | 0.6 | 8.00 | 0.10 | 0.250 | 1.300 | |
| SMD1206R050SF | R5 | 6.0 | 35 | 0.50 | 1.00 | 0.6 | 8.00 | 0.10 | 0.150 | 0.700 | ✓ |
| SMD1206R050SF13.2V | R5 | 13.2 | 35 | 0.50 | 1.00 | 0.6 | 8.00 | 0.10 | 0.150 | 0.700 | |
| SMD1206R050SF16V | R5 | 16.0 | 35 | 0.50 | 1.00 | 0.6 | 8.00 | 0.10 | 0.150 | 0.700 | |
| SMD1206R050SF30V | R5 | 30.0 | 35 | 0.50 | 1.00 | 0.6 | 8.00 | 0.10 | 0.150 | 0.700 | |
| SMD1206R050SF33V | R5 | 33.0 | 35 | 0.50 | 1.00 | 0.6 | 8.00 | 0.10 | 0.150 | 0.700 | |
| SMD1206R075SF | R7 | 6.0 | 35 | 0.75 | 1.50 | 0.6 | 8.00 | 0.20 | 0.090 | 0.500 | ✓ |
| SMD1206R075SF16V | R7 | 16.0 | 35 | 0.75 | 1.50 | 0.6 | 8.00 | 0.20 | 0.090 | 0.500 | |
| SMD1206R075SF24V | R7 | 16.0 | 35 | 0.75 | 1.50 | 0.6 | 8.00 | 0.20 | 0.090 | 0.500 | |
| SMD1206R075SF30V | R7 | 30.0 | 35 | 0.75 | 1.50 | 0.6 | 8.00 | 0.20 | 0.090 | 0.500 | |
| SMD1206R100SF | R0 | 6.0 | 35 | 1.00 | 1.80 | 0.6 | 8.00 | 0.30 | 0.050 | 0.270 | ✓ |
| SMD1206R100SF16V | R0 | 16.0 | 35 | 1.00 | 1.80 | 0.6 | 8.00 | 0.30 | 0.050 | 0.270 | |
| SMD1206R100SF24V | R0 | 24.0 | 35 | 1.00 | 1.80 | 0.6 | 8.00 | 0.30 | 0.050 | 0.270 | |
| SMD1206R100SF30V | R0 | 30.0 | 35 | 1.00 | 1.80 | 0.6 | 8.00 | 0.30 | 0.050 | 0.270 | |
| SMD1206R110SF | R0 | 6.0 | 35 | 1.10 | 2.20 | 0.6 | 8.00 | 0.30 | 0.040 | 0.250 | ✓ |
| SMD1206R110SF16V | R0 | 16.0 | 35 | 1.10 | 2.20 | 0.6 | 8.00 | 0.30 | 0.040 | 0.250 | |
| SMD1206R110SF24V | R0 | 24.0 | 35 | 1.10 | 2.20 | 0.6 | 8.00 | 0.30 | 0.040 | 0.250 | |
| SMD1206R110SF30V | R0 | 30.0 | 35 | 1.10 | 2.20 | 0.6 | 8.00 | 0.30 | 0.040 | 0.250 | |
| SMD1206R125SF | RC | 6.0 | 35 | 1.25 | 2.50 | 0.6 | 8.00 | 0.30 | 0.030 | 0.190 | |
| SMD1206R125SF12V | RC | 12 | 35 | 1.25 | 2.50 | 0.6 | 8.00 | 0.30 | 0.030 | 0.190 | |
| SMD1206R150SF | RX | 6.0 | 35 | 1.50 | 3.00 | 0.8 | 8.00 | 0.30 | 0.025 | 0.130 | ✓ |
| SMD1206R150SF13.2V | RX | 13.2 | 35 | 1.50 | 3.00 | 0.8 | 8.00 | 0.30 | 0.025 | 0.130 | |
| SMD1206R150SF16V | RX | 16 | 35 | 1.50 | 3.00 | 0.8 | 8.00 | 0.30 | 0.025 | 0.130 | |

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SMD1206 HF Series Surface Mount PTC Devices

| | | | | | | | | | | | |
|------------------|----|------|----|------|------|-----|------|------|-------|-------|---|
| SMD1206R200SF | RY | 6.0 | 35 | 2.00 | 3.50 | 0.8 | 8.00 | 1.50 | 0.015 | 0.080 | ✓ |
| SMD1206R200SF12V | RY | 12.0 | 35 | 2.00 | 3.50 | 0.8 | 8.00 | 1.50 | 0.015 | 0.080 | |
| SMD1206R250SF | RZ | 6.0 | 35 | 2.50 | 5.00 | 0.8 | 8.00 | 2.00 | 0.010 | 0.060 | |
| SMD1206R260SF | RZ | 6.0 | 35 | 2.60 | 5.20 | 0.8 | 8.00 | 2.00 | 0.010 | 0.060 | |
| SMD1206R300SF | RU | 6.0 | 35 | 3.00 | 6.00 | 1.0 | 8.00 | 4.00 | 0.010 | 0.050 | |
| SMD1206R350SF | R- | 6.0 | 35 | 3.50 | 7.00 | 1.2 | 10.0 | 5.00 | 0.005 | 0.040 | |

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.

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

Ri min/max = Minimum/Maximum device resistance prior to tripping at 25°C.



R1max = 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. | I HOLD/I TRIP PASS |
| Humidity aging | +85°C, 85% R.H. , 168 hours | I HOLD/I TRIP PASS |
| Thermal shock | +85°C to -40°C, 20 times | I HOLD/I TRIP PASS |
| 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 | | |

Agency Approval and Environmental Compliance

| Agency | File Number | Regulation | Standard |
|--------|-------------|---|------------|
| UL | E486890 |  | 2002/95/EC |
| TUV | pending |  | EN14582 |

Thermal Derating Chart

Recommended Hold Current(A) at Ambient Temperature(°C)

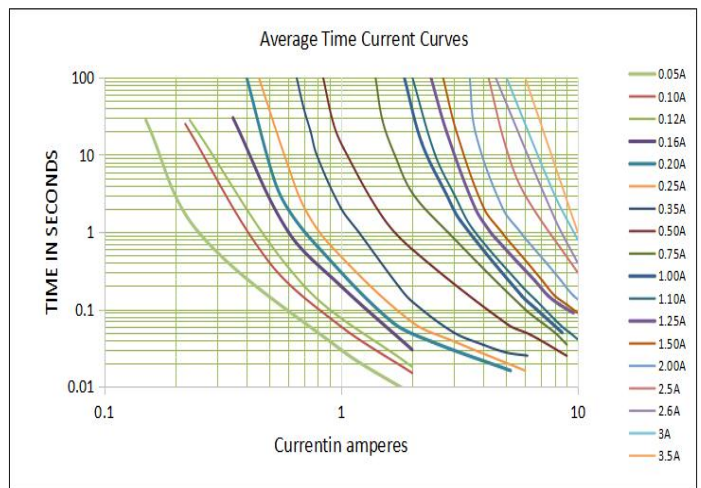
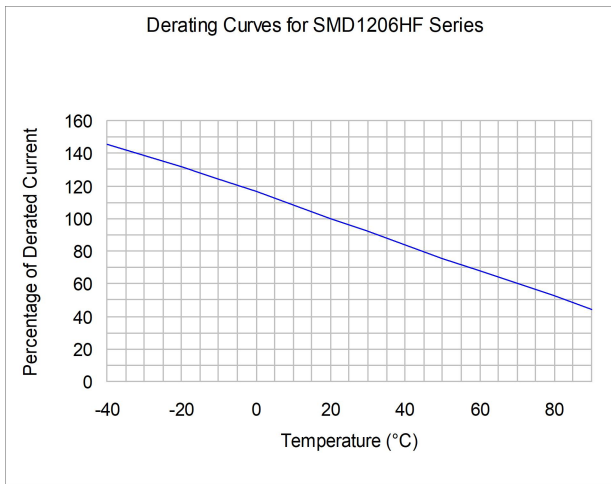
| Model | Ambient Operation Temperature | | | | | | | | |
|---------------|-------------------------------|-------|-------|------|--------|--------|-------|------|--------|
| | -40°C | -20°C | 0°C | 25°C | 40°C | 50°C | 60°C | 70°C | 85°C |
| SMD1206R005SF | 0.074 | 0.066 | 0.058 | 0.05 | 0.0425 | 0.0375 | 0.035 | 0.03 | 0.0275 |
| SMD1206R010SF | 0.148 | 0.132 | 0.116 | 0.10 | 0.085 | 0.075 | 0.07 | 0.06 | 0.055 |
| SMD1206R012SF | 0.18 | 0.16 | 0.14 | 0.12 | 0.10 | 0.09 | 0.08 | 0.07 | 0.07 |
| SMD1206R016SF | 0.24 | 0.21 | 0.18 | 0.16 | 0.14 | 0.13 | 0.12 | 0.11 | 0.10 |
| SMD1206R020SF | 0.30 | 0.26 | 0.23 | 0.20 | 0.17 | 0.15 | 0.14 | 0.12 | 0.11 |
| SMD1206R025SF | 0.37 | 0.33 | 0.29 | 0.25 | 0.22 | 0.20 | 0.17 | 0.15 | 0.12 |
| SMD1206R035SF | 0.50 | 0.45 | 0.40 | 0.35 | 0.30 | 0.27 | 0.24 | 0.21 | 0.15 |

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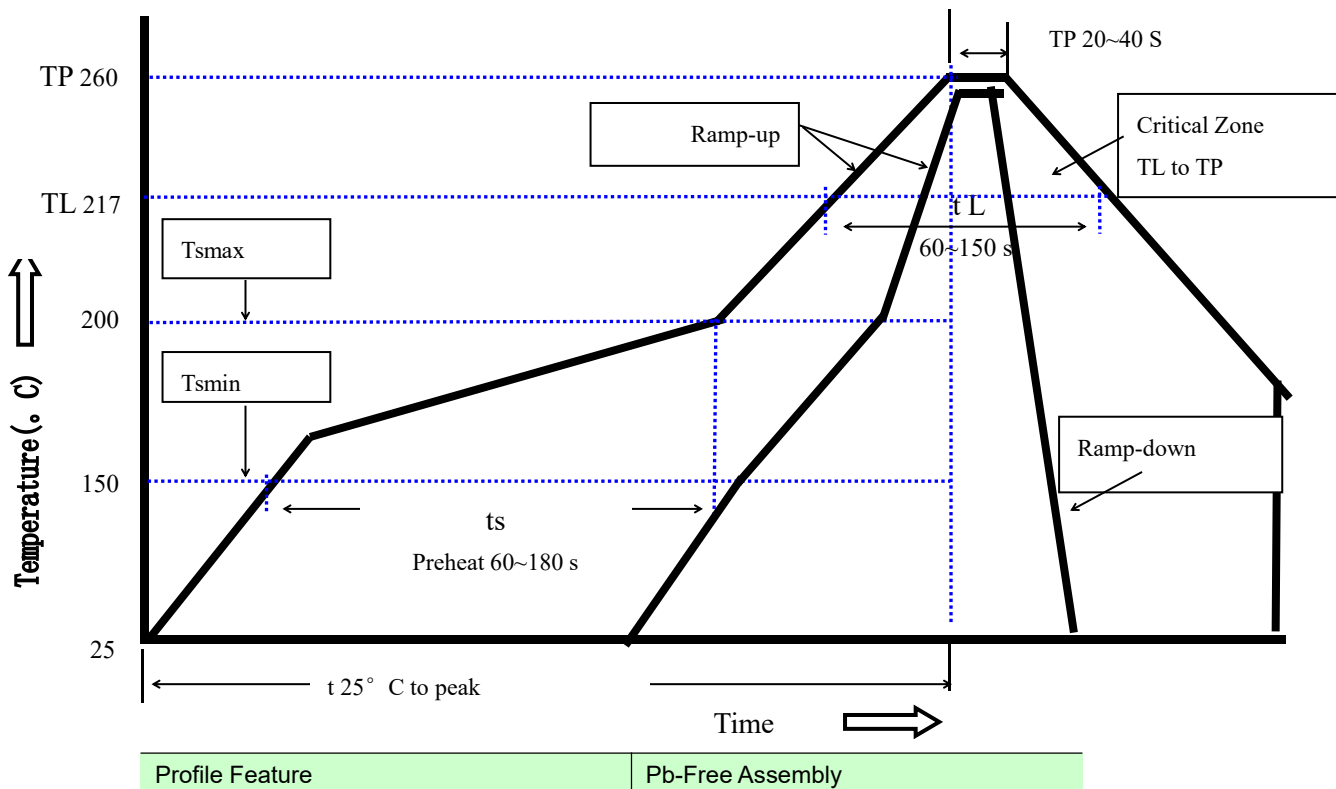
| | | | | | | | | | |
|---------------|------|------|------|------|------|------|------|------|------|
| SMD1206R050SF | 0.71 | 0.64 | 0.57 | 0.50 | 0.42 | 0.39 | 0.35 | 0.31 | 0.25 |
| SMD1206R075SF | 1.14 | 1.01 | 0.88 | 0.75 | 0.65 | 0.59 | 0.54 | 0.49 | 0.41 |
| SMD1206R100SF | 1.45 | 1.31 | 1.15 | 1.00 | 0.84 | 0.77 | 0.69 | 0.61 | 0.48 |
| SMD1206R110SF | 1.60 | 1.45 | 1.30 | 1.10 | 0.95 | 0.80 | 0.72 | 0.66 | 0.55 |
| SMD1206R125SF | 2.0 | 1.75 | 1.52 | 1.25 | 1.00 | 0.95 | 0.90 | 0.75 | 0.53 |
| SMD1206R150SF | 2.18 | 1.94 | 1.72 | 1.50 | 1.28 | 1.17 | 1.06 | 0.96 | 0.77 |
| SMD1206R200SF | 2.88 | 2.63 | 2.34 | 2.00 | 1.74 | 1.58 | 1.42 | 1.17 | 0.93 |
| SMD1206R250SF | 3.30 | 3.10 | 2.82 | 2.50 | 2.16 | 1.98 | 1.83 | 1.54 | 1.33 |
| SMD1206R260SF | 3.43 | 3.22 | 2.93 | 2.60 | 2.23 | 2.03 | 1.87 | 1.57 | 1.35 |
| SMD1206R300SF | 4.05 | 3.66 | 3.36 | 3.00 | 2.50 | 2.28 | 2.00 | 1.62 | 1.35 |
| SMD1206R350SF | 4.65 | 4.23 | 3.92 | 3.50 | 2.92 | 2.68 | 2.35 | 1.91 | 1.42 |

Thermal Derating Curve

Average Time-Current Curve



Soldering Parameters



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| | |
|-------------------------------------|--------------------|
| Average Ramp-Up Rate(Ts max to T p) | 3°C/second max. |
| Preheat | |
| -Temperature Min(Ts min) | 150°C |
| -Temperature Max(Ts max) | 200°C |
| -Time(Ts min to Ts max) | 60~180 seconds |
| Time maintained above: | |
| -Temperature(TL) | 217°C |
| -Time(tL) | 60~150 seconds |
| Peak Temperature(Tp) | 260°C |
| Ramp-Down Rate | 6°C/second max. |
| Time 25°C to Peak Temperature | 8 minutes max |
| Storage Condition | 0°C~30°C,30%~60%RH |

Recommended reflow methods: IR, vapor phase oven, hot air oven, N2 environment for lead-free

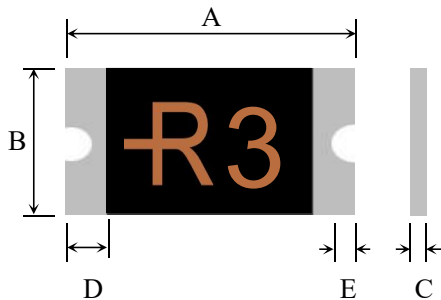
Recommended maximum paste thickness is 0.25mm

Devices can be cleaned using standard industry methods and solvents.

Note 1: All temperature refer to topside of the package, measured on the package body surface.

Note 2: If reflow temperatures exceed the recommended profile, devices may not meet the performance requirements.

Physical Dimensions(mm.)



| Model | A | | B | | C | | D | E |
|------------------|------|------|------|------|------|------|------|------|
| | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Min. |
| SMD1206R005SF60V | 3.00 | 3.60 | 1.50 | 1.90 | 0.60 | 1.20 | 0.15 | 0.10 |
| SMD1206R005SF | 3.00 | 3.60 | 1.50 | 1.90 | 0.60 | 1.20 | 0.15 | 0.10 |
| SMD1206R010SF60V | 3.00 | 3.60 | 1.50 | 1.90 | 0.60 | 1.20 | 0.15 | 0.10 |
| SMD1206R010SF | 3.00 | 3.60 | 1.50 | 1.90 | 0.60 | 1.20 | 0.15 | 0.10 |
| SMD1206R012SF60V | 3.00 | 3.60 | 1.50 | 1.90 | 0.60 | 1.20 | 0.15 | 0.10 |
| SMD1206R012SF | 3.00 | 3.60 | 1.50 | 1.90 | 0.60 | 1.20 | 0.15 | 0.10 |
| SMD1206R016SF33V | 3.00 | 3.60 | 1.50 | 1.90 | 0.40 | 1.00 | 0.15 | 0.10 |
| SMD1206R016SF | 3.00 | 3.60 | 1.50 | 1.90 | 0.40 | 1.00 | 0.15 | 0.10 |
| SMD1206R016SF16V | 3.00 | 3.60 | 1.50 | 1.90 | 0.40 | 1.00 | 0.15 | 0.10 |
| SMD1206R020SF | 3.00 | 3.60 | 1.50 | 1.90 | 0.40 | 1.00 | 0.15 | 0.10 |
| SMD1206R020SF30V | 3.00 | 3.60 | 1.50 | 1.90 | 0.40 | 1.00 | 0.15 | 0.10 |
| SMD1206R020SF48V | 3.00 | 3.60 | 1.50 | 1.90 | 0.40 | 1.00 | 0.15 | 0.10 |
| SMD1206R025SF16V | 3.00 | 3.60 | 1.50 | 1.90 | 0.40 | 1.00 | 0.15 | 0.10 |
| SMD1206R025SF | 3.00 | 3.60 | 1.50 | 1.90 | 0.40 | 1.00 | 0.15 | 0.10 |

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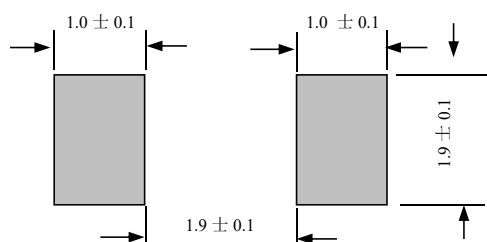
| | | | | | | | | |
|--------------------|------|------|------|------|------|------|------|------|
| SMD1206R025SF30V | 3.00 | 3.60 | 1.50 | 1.90 | 0.40 | 1.00 | 0.15 | 0.10 |
| SMD1206R025SF48V | 3.00 | 3.60 | 1.50 | 1.90 | 0.40 | 1.00 | 0.15 | 0.10 |
| SMD1206R035SF | 3.00 | 3.60 | 1.50 | 1.90 | 0.35 | 0.8 | 0.15 | 0.10 |
| SMD1206R035SF16V | 3.00 | 3.60 | 1.50 | 1.90 | 0.35 | 0.8 | 0.15 | 0.10 |
| SMD1206R035SF30V | 3.00 | 3.60 | 1.50 | 1.90 | 0.40 | 0.9 | 0.15 | 0.10 |
| SMD1206R050SF | 3.00 | 3.60 | 1.50 | 1.90 | 0.35 | 0.8 | 0.15 | 0.10 |
| SMD1206R050SF13.2V | 3.00 | 3.60 | 1.50 | 1.90 | 0.35 | 0.80 | 0.15 | 0.10 |
| SMD1206R050SF16V | 3.00 | 3.60 | 1.50 | 1.90 | 0.35 | 0.8 | 0.15 | 0.10 |
| SMD1206R050SF30V | 3.00 | 3.60 | 1.50 | 1.90 | 0.50 | 1.00 | 0.15 | 0.10 |
| SMD1206R050SF33V | 3.00 | 3.60 | 1.50 | 1.90 | 0.60 | 1.50 | 0.15 | 0.10 |
| SMD1206R075SF | 3.00 | 3.60 | 1.50 | 1.90 | 0.35 | 0.80 | 0.15 | 0.10 |
| SMD1206R075SF16V | 3.00 | 3.60 | 1.50 | 1.90 | 0.50 | 1.00 | 0.15 | 0.10 |
| SMD1206R075SF24V | 3.00 | 3.60 | 1.50 | 1.90 | 0.60 | 1.20 | 0.15 | 0.10 |
| SMD1206R075SF30V | 3.00 | 3.60 | 1.50 | 1.90 | 0.70 | 1.30 | 0.15 | 0.10 |
| SMD1206R100SF | 3.00 | 3.60 | 1.50 | 1.90 | 0.35 | 0.80 | 0.15 | 0.10 |
| SMD1206R100SF16V | 3.00 | 3.60 | 1.50 | 1.90 | 0.50 | 1.00 | 0.15 | 0.10 |
| SMD1206R100SF24V | 3.00 | 3.60 | 1.50 | 1.90 | 0.70 | 1.30 | 0.15 | 0.10 |
| SMD1206R100SF30V | 3.00 | 3.60 | 1.50 | 1.90 | 0.70 | 1.30 | 0.15 | 0.10 |
| SMD1206R110SF | 3.00 | 3.60 | 1.50 | 1.90 | 0.35 | 0.80 | 0.15 | 0.10 |
| SMD1206R110SF16V | 3.00 | 3.60 | 1.50 | 1.90 | 0.50 | 1.00 | 0.15 | 0.10 |
| SMD1206R110SF24V | 3.00 | 3.60 | 1.50 | 1.90 | 0.70 | 1.30 | 0.15 | 0.10 |
| SMD1206R110SF30V | 3.00 | 3.60 | 1.50 | 1.90 | 0.70 | 1.30 | 0.15 | 0.10 |
| SMD1206R125SF | 3.00 | 3.60 | 1.50 | 1.90 | 0.50 | 1.10 | 0.15 | 0.10 |
| SMD1206R125SF12V | 3.00 | 3.60 | 1.50 | 1.90 | 0.50 | 1.10 | 0.15 | 0.10 |
| SMD1206R150SF | 3.00 | 3.60 | 1.50 | 1.90 | 0.50 | 1.00 | 0.15 | 0.10 |
| SMD1206R150SF13.2V | 3.00 | 3.60 | 1.50 | 1.90 | 1.00 | 1.60 | 0.15 | 0.10 |
| SMD1206R150SF16V | 3.00 | 3.60 | 1.50 | 1.90 | 1.00 | 1.60 | 0.15 | 0.10 |
| SMD1206R200SF | 3.00 | 3.60 | 1.50 | 1.90 | 0.7 | 1.30 | 0.15 | 0.10 |
| SMD1206R200SF12V | 3.00 | 3.60 | 1.50 | 1.90 | 1.00 | 1.60 | 0.15 | 0.10 |
| SMD1206R250SF | 3.00 | 3.60 | 1.50 | 1.90 | 1.00 | 1.60 | 0.15 | 0.10 |
| SMD1206R260SF | 3.00 | 3.60 | 1.50 | 1.90 | 1.00 | 1.60 | 0.15 | 0.10 |
| SMD1206R300SF | 3.00 | 3.60 | 1.50 | 1.90 | 1.00 | 1.60 | 0.15 | 0.10 |
| SMD1206R350SF | 3.00 | 3.60 | 1.50 | 1.90 | 1.00 | 1.60 | 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.)



注：在此印锡面积条件下，推荐钢网厚度为 $\geq 0.12\text{MM}$ (钢网厚度不够要增大刷锡面积)

Packaging Quantity

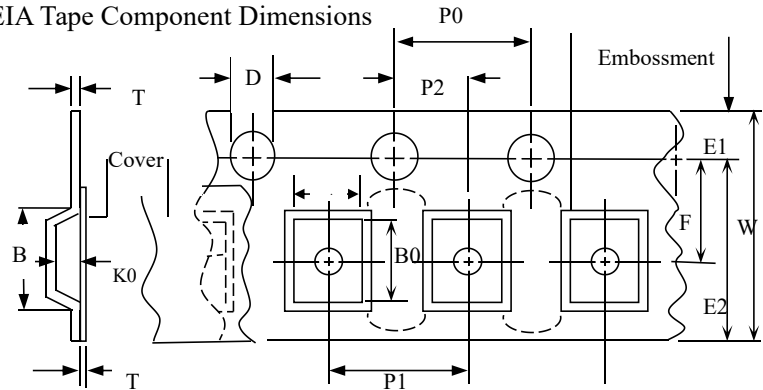
| Part Number | Quantity |
|--|---------------|
| SMD1206R005.010.012.125.150.200.250260. 300.350SF | 3500 pcs/reel |
| SMD1206R020.025.035.050.075.100.110SF | 4500 pcs/reel |

Tape & reel packaging per EIA481-1

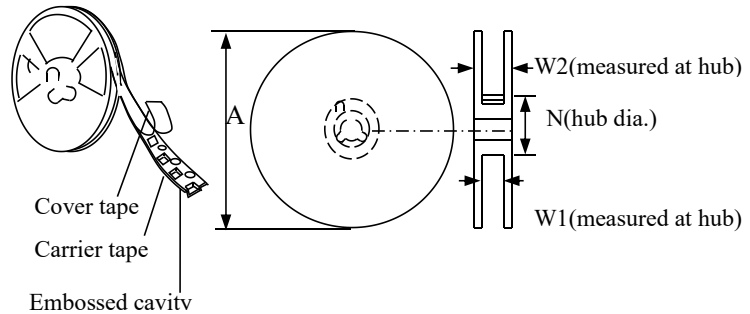
Tape And Reel Specifications (mm)

| Governing Specifications | EIA 481-1 |
|--------------------------|----------------|
| W | 8.15 ± 0.3 |
| P0 | 4.0 ± 0.10 |
| P1 | 4.0 ± 0.10 |
| P2 | 2.0 ± 0.05 |
| A0 | 1.95 ± 0.10 |
| B0 | 3.40 ± 0.10 |
| B1max. | 4.35 |
| D0 | 1.50 + 0.1, -0 |
| F | 3.5 ± 0.05 |
| E1 | 1.75 ± 0.10 |
| E2min. | 6.25 |
| T | 0.6 |
| T1max. | 0.1 |
| K0 | 1.04 ± 0.1 |
| Leader min. | 390 |
| Trailer min. | 160 |
| Reel Dimensions | |
| A max. | 178 |
| N min. | 60 |
| W1 | 9 ± 0.5 |
| W2 | 12.6 ± 0.5 |

EIA Tape Component Dimensions



EIA Reel Dimensions



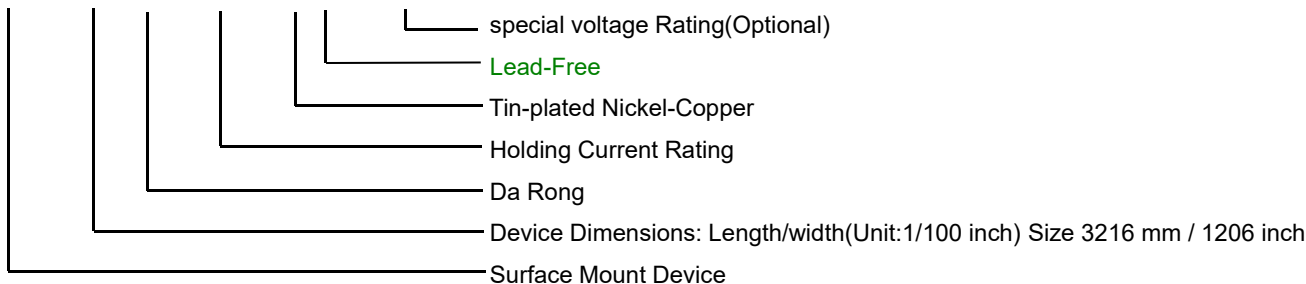
Storage And Handling

· Storage conditions: 30°C max, 30%~60% R.H.

· Devices may not meet specified performance if storage conditions are exceeded.

Part Number System

SMD 1206 R □□□ S F □□V



注意事项

PPTC 使用注意事项:

- PPTC 为热敏元件，对环境温度比较敏感，建议在 PPTC 周围不要设计热源元件，尽量减少外部热源的影响。
 - 请在规格书规定的参数下(<10%)使用，超出电压电流规格值，会导致 PPTC 出现电弧，阻值升高，甚至烧片。
 - 规格书的电气特性，均是基于在大容指定测试板经过一次回流焊之后的测试；如果客户有二次回流焊或者注塑点胶等其他热工序，会对上述参数有一定程度的衰减，需要验证其适用性。
 - PPTC 贴片产品是为 SMT 工艺设计的封装形式，焊接工艺为回流焊；要求客户遵守我们推荐的焊盘布局和回流焊配置文件。不正确的电路板布局或回流配置可能会对 PPTC 的可焊性性能产生负面影响。焊接工艺可参考大容推荐的回流焊曲线。如果回流焊温度超过推荐的值，PPTC 将有可能受到损伤。使用手工焊及波峰焊接 PPTC 可能会导致产品焊后电阻超出规格。
 - 某些注塑料、单组份、双组份固化胶粘剂、硅胶、侵蚀性溶剂污染 PPTC 材料破坏芯片，需要对注塑料胶料等材料牌号以及应用参数（如温度、时间等）进行验证，以确保产品及工艺的匹配性，确认不会影响 PPTC 性能之后方可使用。
- PPTC 在充电线端应用中，建议使用 PP 类材料做内膜，禁止使用 TPE 类与 PVC 类等材料做内膜。
- PPTC 贴装或使用过程中，不建议使用洗板水或其他清洗剂进行清洗。如必须使用，需要验证各类清洗剂、洗板水以及溶剂的适用性，确认不会影响 PPTC 性能之后方可使用。已知对 PPTC 有影响的化学药品包括但不限于醚类、苯类、酮类以及脂类等较强溶解性、破坏性的有机化合物，清洗后将产品放置于敞开的环境中至少 24 小时，将残留的溶剂进行充分的挥发。
 - 装配过程中，避免用暴力砸、挤、压、拉、扭、刺等方式作用 PPTC 本体，以免引起 PPTC 性能衰减。
 - PPTC 元件是为电路中偶尔出现的过流而设计的，不建议用在连续且持续过流的电路中。
 - 大容 SMD PPTC 湿敏等级为 2 级，为密封包装。客户如在库存中发现有包装破损的，立即将产品隔离处理；使用时如有余料，需恢复之前包装状态，做密封保存，否则会影响产品性能导致焊后电阻越规格。
 - 产品废弃时，可按照一般电子废弃物处理，具体材料组成可参见 MSDS