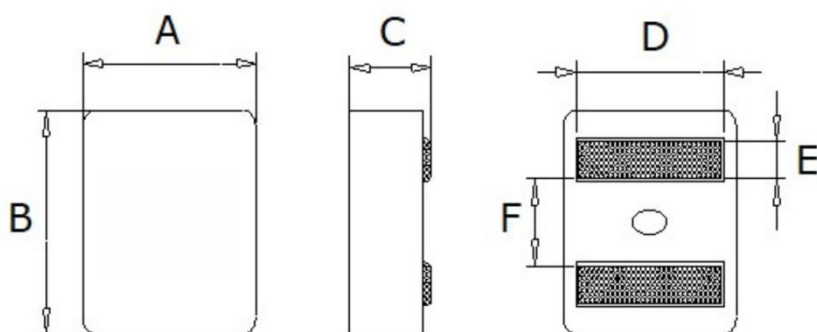
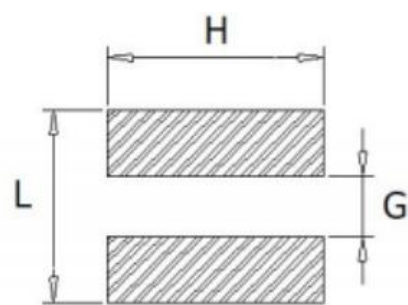


SMD Power Inductors

◆ DIMENSION (:mm)




| | |
|---|----------------|
| A | 8.9 ± 0.3 |
| B | 8.5 ± 0.3 |
| C | 7.7 ± 0.3 |
| D | See Spec table |
| E | 1.8 ± 0.2 |
| F | 3.5 ± 0.3 |
| G | 2.7ref |
| H | 7.8ref |
| L | 8.0ref |



Recommend Land Pattern

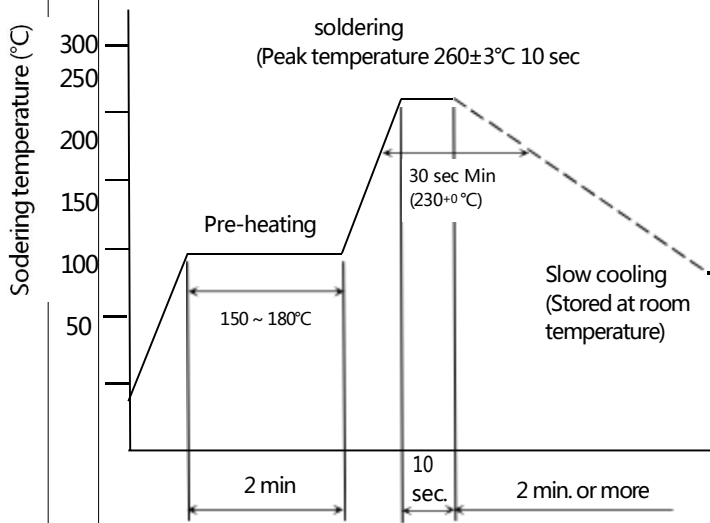
TEST INSTRUMENTS

| | | |
|-------------------------------------|--------------|---|
| <input type="checkbox"/> | HP4192A ZLCR |  |
| <input type="checkbox"/> | HP4284A LCR | |
| <input type="checkbox"/> | HP4285A LCR | |
| <input type="checkbox"/> | HP4263B LCR | |
| <input checked="" type="checkbox"/> | ZT 1320 | |
| <input checked="" type="checkbox"/> | ZT 1320A | |
| <input checked="" type="checkbox"/> | CH1062 | |
| <input checked="" type="checkbox"/> | UC2517B | |

◆ SPECIFICATION

| Test frequency | 100KHz/0.1V | | | | | | |
|----------------|-----------------|----------|------|--------------|----------|-----------------|----------------|
| WS Part No | L0 (uH) ±20% | Isat (A) | | Irms (A) Typ | | DCR (mΩ) MAX | D (mm) ±0.3 |
| | | Max | Typ | 20℃ rise | 40℃ rise | | |
| SLO0880T1R8MTT | 1.8 | 24 | 28 | 18 | 24 | 4 | 7.2 |
| SLO0880T2R2MTT | 2.2 | 22 | 25 | 16 | 21.5 | 4.3 | 7.2 |
| SLO0880T3R3MTT | 3.3 | 20 | 23 | 13.5 | 18 | 7.3 | 6.9 |
| SLO0880T4R7MTT | 4.7 | 17 | 19 | 10.5 | 14.6 | 9.8 | 6.9 |
| SLO0880T6R8MTT | 6.8 | 12.5 | 14.5 | 8 | 11.3 | 14.3 | 6.9 |
| SLO0880T100MTT | 10 | 10 | 11 | 6.6 | 8.7 | 22.9 | 6.9 |

MECHANICAL

| TEST ITEM | SPECIFICATION | |
|---|---------------------------------------|---|
| Resistance to Soldering heat (reflow soldering) | There shall be no damage or problems. | Temperature profile of reflow soldering |
| | |  |
| | | <p>The specimen shall be passed through the reflow oven with the condition shown in the above profile for 1 time.</p> <p>The specimen shall be stored at standard atmospheric conditions for 1 hour, after which the measurement shall be made.</p> |

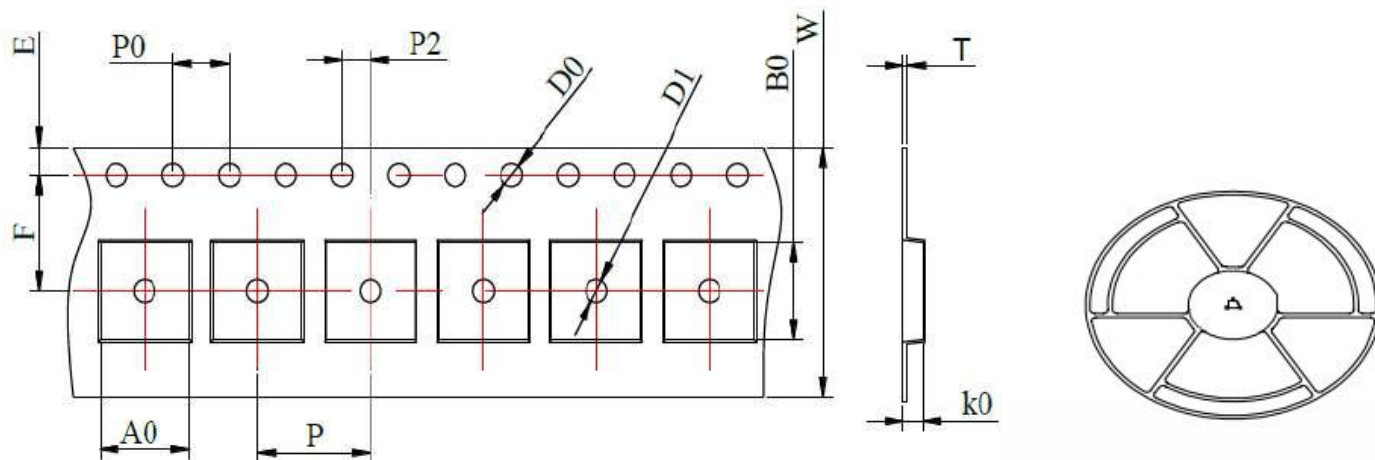
ELECTRICAL

| TEST ITEM | SPECIFICATION | TEST DETAILS |
|------------------------------|---|---|
| Insulation resistance | There shall be no other damage or problems. | <p>DC 100V voltage shall be applied across this sample of top surface and the terminal.</p> <p>The insulation resistance shall be more than $1 \times 10^8 \Omega$.</p> |
| Dielectric withstand voltage | There shall be no other damage or problems. | AC 100V voltage shall be applied for 1 minute across the top surface and the terminal of this sample |
| Temperature characteristics | $\Delta L/L 20C \pm 10\%$ 0 ~ 2000 ppm/C | <p>The test shall be performed after the sample has stabilized in an ambient temperature of - 40 to + 125C, and the value calculated based on the value applicable in a normal temperature and normal humidity shall be $\Delta L/L 20C \pm 10\%$.</p> |

ENVIROMENT CHARACTERISTICS

| TEST ITEM | SPECIFICATION | | | |
|--|---|--|---|--------------------------------|
| High temperature storage | $\Delta L / Lo \leq \pm 5 \%$ There shall be no mechanical damage. | The sample shall be left for 500 hours in an atmosphere with a temperature of $125 \pm 2^{\circ}\text{C}$ and a normal humidity. Upon completion of the measurement shall be made after the sample has been left in a normal temperature and normal humidity for 1 hour. | | |
| Low temperature storage | $\Delta L / Lo \leq \pm 5 \%$ There shall be no mechanical damage. | The sample shall be left for 500 hours in an atmosphere with a temperature of $-40 \pm 3^{\circ}\text{C}$. Upon completion of the test, the measurement shall be made after the sample has been left in a normal temperature and normal humidity for 1 hour. | | |
| Change of temperature | $\Delta L / Lo \leq \pm 5 \%$ There shall be no other damage of problems | The sample shall be subject to 5 continuous cycles, such as shown in the table 2 below and then it shall be subjected to standard atmospheric conditions for 1 hour, after which measurement shall be made. | | |
| | | table 2 | | |
| | | | Temperature | Duration |
| | | 1 | $- 40 \pm 3^{\circ}\text{C}$ (Thermostat No.1) | 10 min. |
| | | 2 | Standard atmospheric | 5 sec. or less No. 1 → No.2 |
| | | 3 | $125 \pm 2^{\circ}\text{C}$ (Thermostat No.2) | 30 min. |
| | | 4 | Standard atmospheric | 5 sec. or less No.2 → No. 1 |
| Moisuture storage | $\Delta L / Lo \leq \pm 5 \%$ There shall be no mechanical damage. | The sample shall be left for 500 hours in a temperature of $40 \pm 2^{\circ}\text{C}$ and a humidity(RH) of 90~95%. Upon completion of the test, the measurement shall be made after the sample has been left in a normal temperature and normal humidity more than 1 hour. | | |
| Test conditions : The sample shall be reflow soldered onto the printed circuit board in every test. | | | | |

◆ PACKAGING INFORMATION (Unit: mm)



| Tape dimensions (mm) | | | | | | | | | | | | |
|----------------------|--------|-------|--------|---------|---------|-----------|---------|---------|---------|----------|----------|------------------|
| W | P | P0 | P2 | D0 | D1 | T | A0 | B0 | K0 | E | F | Packing Quantity |
| 24±0.3 | 16±0.1 | 4±0.1 | 2±0.05 | 1.5±0.1 | 1.5±0.1 | 0.35±0.06 | 9.4±0.1 | 8.5±0.1 | 8.5±0.1 | 1.75±0.1 | 11.5±0.1 | 450pcs/reel |