

CL Series

SMD Multilayer Chip Inductors

APPLICATIONS

Personal computers, HDDs, or other various electronic appliances.

Any general circuit of portable equipment in which compact size and high mounting densities are required.

OUTLINE

Yageo's SMD multi-layered ferrite chip inductors provide a cost-effective solution for densely packed PC board designs.

CL series is suitable for low frequency applications.

FEATURES

High mounting density of compact circuit due to crosstalk elimination that results from a closed magnetic flux in a ferrite material.

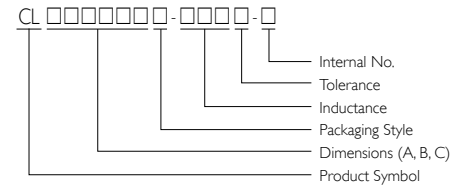
Suitable for flow and re-flow soldering

SHAPES AND DIMENSIONS

| TYPE | A | B | C | D |
|----------|------------|-------------|-------------|-------------|
| CL100505 | 1.0 ± 0.10 | 0.50 ± 0.10 | 0.50 ± 0.10 | 0.25 ± 0.10 |
| CL160808 | 1.6 ± 0.20 | 0.80 ± 0.20 | 0.80 ± 0.20 | 0.30 ± 0.20 |
| CL201209 | 2.0 ± 0.20 | 1.25 ± 0.20 | 0.90 ± 0.20 | 0.50 ± 0.30 |
| CL201212 | 2.0 ± 0.20 | 1.25 ± 0.20 | 1.25 ± 0.20 | 0.50 ± 0.30 |
| CL321611 | 3.2 ± 0.20 | 1.60 ± 0.20 | 1.10 ± 0.20 | 0.50 ± 0.30 |

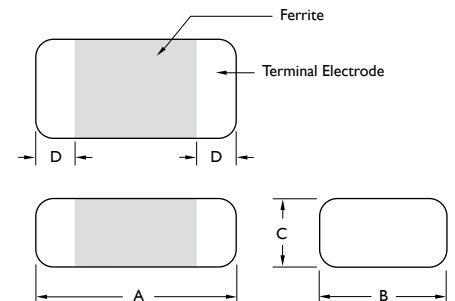


PRODUCT IDENTIFICATION



- Packaging: T = Tape and Reel, B = Bulk
- Internal No.: N = Lead-Free

Unit: mm





ELECTRICAL CHARACTERISTICS CLI00505

| PART NO. | IMPEDANCE (μ H) | TOLERANCE (\pm %) | Q Min. | TEST FREQUENCY (MHz) | SRF (MHz) Min. | DC RESISTANCE (Ω) Max. | IDC (mA) Max. |
|------------------|-------------------------|-------------------------|-----------|----------------------------|-------------------|---------------------------------------|------------------|
| CLI00505T-10NM-N | 0.010 | 20 | 8 | 50 | 500 | 0.45 | 50 |
| CLI00505T-12NM-N | 0.012 | 20 | 8 | 50 | 500 | 0.45 | 50 |
| CLI00505T-47NM-N | 0.047 | 20 | 10 | 50 | 500 | 0.45 | 50 |
| CLI00505T-68NM-N | 0.068 | 20 | 10 | 50 | 480 | 0.45 | 50 |
| CLI00505T-82NM-N | 0.082 | 20 | 10 | 50 | 480 | 0.45 | 50 |
| CLI00505T-R10□-N | 0.10 | 10 / 20 | 15 | 25 | 450 | 0.60 | 50 |
| CLI00505T-R12□-N | 0.12 | 10 / 20 | 15 | 25 | 400 | 0.70 | 25 |
| CLI00505T-R15□-N | 0.15 | 10 / 20 | 15 | 25 | 350 | 0.80 | 25 |
| CLI00505T-R18□-N | 0.18 | 10 / 20 | 15 | 25 | 320 | 0.90 | 25 |
| CLI00505T-R22□-N | 0.22 | 10 / 20 | 15 | 25 | 290 | 1.10 | 25 |
| CLI00505T-R27□-N | 0.27 | 10 / 20 | 15 | 25 | 260 | 1.30 | 25 |
| CLI00505T-R33□-N | 0.33 | 10 / 20 | 15 | 25 | 230 | 1.50 | 25 |
| CLI00505T-R39□-N | 0.39 | 10 / 20 | 20 | 10 | 210 | 0.60 | 10 |
| CLI00505T-R47□-N | 0.47 | 10 / 20 | 20 | 10 | 190 | 0.65 | 10 |
| CLI00505T-R56□-N | 0.56 | 10 / 20 | 20 | 10 | 170 | 0.70 | 10 |
| CLI00505T-R68□-N | 0.68 | 10 / 20 | 20 | 10 | 150 | 0.80 | 10 |
| CLI00505T-R82□-N | 0.82 | 10 / 20 | 20 | 10 | 130 | 0.90 | 10 |
| CLI00505T-1R0□-N | 1.00 | 10 / 20 | 20 | 10 | 120 | 1.00 | 15 |
| CLI00505T-1R2□-N | 1.20 | 10 / 20 | 20 | 10 | 110 | 1.10 | 15 |
| CLI00505T-1R5□-N | 1.50 | 10 / 20 | 20 | 10 | 100 | 1.20 | 10 |
| CLI00505T-1R8□-N | 1.80 | 10 / 20 | 20 | 10 | 90 | 1.30 | 10 |

Note:

Tolerance: K = \pm 10%, M = \pm 20%

ELECTRICAL CHARACTERISTICS CL160808

| PART NO. | IMPEDANCE (μH) | TOLERANCE (\pm%) | Q Min. | TEST FREQUENCY (MHz) | SRF (MHz) Min. | DC RESISTANCE (Ω) Max. | IDC (mA) Max. |
|------------------|--|--|-------------------|-------------------------------------|---------------------------|---|--------------------------|
| CL160808T-10NM-N | 0.010 | 20 | 15 | 50 | 300 | 0.20 | 50 |
| CL160808T-33NM-N | 0.033 | 20 | 15 | 50 | 270 | 0.20 | 50 |
| CL160808T-47NM-N | 0.047 | 20 | 15 | 50 | 260 | 0.30 | 50 |
| CL160808T-56NM-N | 0.056 | 20 | 15 | 50 | 255 | 0.30 | 50 |
| CL160808T-68NM-N | 0.068 | 20 | 15 | 50 | 250 | 0.30 | 50 |
| CL160808T-82NM-N | 0.082 | 20 | 15 | 50 | 245 | 0.30 | 50 |
| CL160808T-R10□-N | 0.10 | 10 / 20 | 25 | 25 | 240 | 0.50 | 50 |
| CL160808T-R12□-N | 0.12 | 10 / 20 | 25 | 25 | 205 | 0.50 | 50 |
| CL160808T-R15□-N | 0.15 | 10 / 20 | 25 | 25 | 180 | 0.60 | 50 |
| CL160808T-R18□-N | 0.18 | 10 / 20 | 25 | 25 | 165 | 0.60 | 50 |
| CL160808T-R22□-N | 0.22 | 10 / 20 | 25 | 25 | 150 | 0.80 | 50 |
| CL160808T-R27□-N | 0.27 | 10 / 20 | 25 | 25 | 136 | 0.80 | 50 |
| CL160808T-R33□-N | 0.33 | 10 / 20 | 25 | 25 | 125 | 0.85 | 35 |
| CL160808T-R39□-N | 0.39 | 10 / 20 | 25 | 25 | 110 | 1.00 | 35 |
| CL160808T-R47□-N | 0.47 | 10 / 20 | 25 | 25 | 105 | 1.35 | 35 |
| CL160808T-R56□-N | 0.56 | 10 / 20 | 25 | 25 | 95 | 1.50 | 35 |
| CL160808T-R68□-N | 0.68 | 10 / 20 | 25 | 25 | 85 | 1.70 | 35 |
| CL160808T-R82□-N | 0.82 | 10 / 20 | 25 | 25 | 75 | 2.10 | 35 |
| CL160808T-1R0□-N | 1.00 | 10 / 20 | 35 | 10 | 65 | 0.60 | 25 |
| CL160808T-1R2□-N | 1.20 | 10 / 20 | 35 | 10 | 60 | 0.80 | 25 |
| CL160808T-1R5□-N | 1.50 | 10 / 20 | 35 | 10 | 55 | 0.80 | 25 |
| CL160808T-1R8□-N | 1.80 | 10 / 20 | 35 | 10 | 50 | 0.95 | 25 |
| CL160808T-2R2□-N | 2.20 | 10 / 20 | 35 | 10 | 45 | 1.00 | 15 |
| CL160808T-2R7□-N | 2.70 | 10 / 20 | 35 | 10 | 40 | 1.15 | 15 |
| CL160808T-3R3□-N | 3.30 | 10 / 20 | 35 | 10 | 38 | 1.30 | 15 |
| CL160808T-3R9□-N | 3.90 | 10 / 20 | 35 | 10 | 36 | 1.50 | 15 |
| CL160808T-4R7□-N | 4.70 | 10 / 20 | 35 | 10 | 33 | 1.60 | 15 |
| CL160808T-5R6□-N | 5.60 | 10 / 20 | 35 | 4 | 22 | 1.10 | 5 |
| CL160808T-6R8□-N | 6.80 | 10 / 20 | 35 | 4 | 20 | 1.30 | 5 |
| CL160808T-8R2□-N | 8.20 | 10 / 20 | 30 | 4 | 18 | 1.50 | 5 |
| CL160808T-100□-N | 10 | 10 / 20 | 30 | 2 | 17 | 1.70 | 5 |
| CL160808T-120□-N | 12 | 10 / 20 | 30 | 2 | 15 | 1.80 | 3 |
| CL160808T-150□-N | 15 | 10 / 20 | 20 | 1 | 14 | 1.50 | 1 |
| CL160808T-180□-N | 18 | 10 / 20 | 20 | 1 | 13 | 1.60 | 1 |
| CL160808T-220□-N | 22 | 10 / 20 | 20 | 1 | 11 | 1.70 | 1 |
| CL160808T-270□-N | 27 | 10 / 20 | 20 | 1 | 10 | 1.80 | 1 |
| CL160808T-330□-N | 33 | 10 / 20 | 20 | 1 | 9 | 2.20 | 1 |

Note:
Tolerance: K = \pm 10%, M = \pm 20%



ELECTRICAL CHARACTERISTICS CL201209

| PART NO. | IMPEDANCE (μH) | TOLERANCE ($\pm\%$) | Q Min. | TEST FREQUENCY (MHz) | SRF (MHz) Min. | DC RESISTANCE (Ω) Max. | IDC (mA) Max. |
|------------------|--------------------------------|--------------------------|-----------|----------------------------|-------------------|---------------------------------------|------------------|
| CL201209T-47NM-N | 0.047 | 20 | 20 | 50 | 320 | 0.20 | 300 |
| CL201209T-68NM-N | 0.068 | 20 | 20 | 50 | 280 | 0.20 | 300 |
| CL201209T-82NM-N | 0.082 | 20 | 20 | 50 | 255 | 0.20 | 300 |
| CL201209T-R10□-N | 0.10 | 10 / 20 | 25 | 25 | 235 | 0.30 | 250 |
| CL201209T-R12□-N | 0.12 | 10 / 20 | 25 | 25 | 220 | 0.30 | 250 |
| CL201209T-R15□-N | 0.15 | 10 / 20 | 25 | 25 | 200 | 0.40 | 250 |
| CL201209T-R18□-N | 0.18 | 10 / 20 | 25 | 25 | 185 | 0.40 | 250 |
| CL201209T-R22□-N | 0.22 | 10 / 20 | 25 | 25 | 170 | 0.50 | 250 |
| CL201209T-R27□-N | 0.27 | 10 / 20 | 25 | 25 | 150 | 0.50 | 250 |
| CL201209T-R33□-N | 0.33 | 10 / 20 | 25 | 25 | 145 | 0.55 | 250 |
| CL201209T-R39□-N | 0.39 | 10 / 20 | 25 | 25 | 135 | 0.65 | 250 |
| CL201209T-R47□-N | 0.47 | 10 / 20 | 25 | 25 | 125 | 0.65 | 250 |
| CL201209T-R56□-N | 0.56 | 10 / 20 | 25 | 25 | 115 | 0.75 | 150 |
| CL201209T-R68□-N | 0.68 | 10 / 20 | 25 | 25 | 105 | 0.80 | 150 |
| CL201209T-R82□-N | 0.82 | 10 / 20 | 25 | 25 | 100 | 1.00 | 150 |
| CL201209T-1R0□-N | 1.00 | 10 / 20 | 45 | 10 | 75 | 0.40 | 50 |
| CL201209T-1R2□-N | 1.20 | 10 / 20 | 45 | 10 | 65 | 0.50 | 50 |
| CL201209T-1R5□-N | 1.50 | 10 / 20 | 45 | 10 | 60 | 0.50 | 50 |
| CL201209T-1R8□-N | 1.80 | 10 / 20 | 45 | 10 | 55 | 0.60 | 50 |
| CL201209T-2R2□-N | 2.20 | 10 / 20 | 45 | 10 | 50 | 0.65 | 30 |

ELECTRICAL CHARACTERISTICS CL201212

| PART NO. | IMPEDANCE (μH) | TOLERANCE ($\pm\%$) | Q Min. | TEST FREQUENCY (MHz) | SRF (MHz) Min. | DC RESISTANCE (Ω) Max. | IDC (mA) Max. |
|------------------|--------------------------------|--------------------------|-----------|----------------------------|-------------------|---------------------------------------|------------------|
| CL201212T-2R7□-N | 2.70 | 10 / 20 | 45 | 10 | 45 | 0.75 | 30 |
| CL201212T-3R3□-N | 3.30 | 10 / 20 | 45 | 10 | 41 | 0.80 | 30 |
| CL201212T-3R9□-N | 3.90 | 10 / 20 | 45 | 10 | 38 | 0.90 | 30 |
| CL201212T-4R7□-N | 4.70 | 10 / 20 | 45 | 10 | 35 | 1.00 | 30 |
| CL201212T-5R6□-N | 5.60 | 10 / 20 | 45 | 4 | 32 | 0.90 | 15 |
| CL201212T-6R8□-N | 6.80 | 10 / 20 | 45 | 4 | 29 | 1.00 | 15 |
| CL201212T-8R2□-N | 8.20 | 10 / 20 | 45 | 4 | 26 | 1.10 | 15 |
| CL201212T-100□-N | 10 | 10 / 20 | 45 | 2 | 24 | 1.10 | 15 |
| CL201212T-120□-N | 12 | 10 / 20 | 45 | 2 | 22 | 1.20 | 15 |
| CL201212T-150□-N | 15 | 10 / 20 | 30 | 1 | 19 | 0.80 | 5 |
| CL201212T-180□-N | 18 | 10 / 20 | 30 | 1 | 18 | 0.90 | 5 |
| CL201212T-220□-N | 22 | 10 / 20 | 30 | 1 | 16 | 1.10 | 5 |

Note:

Tolerance: K = $\pm 10\%$, M = $\pm 20\%$

ELECTRICAL CHARACTERISTICS CL321611

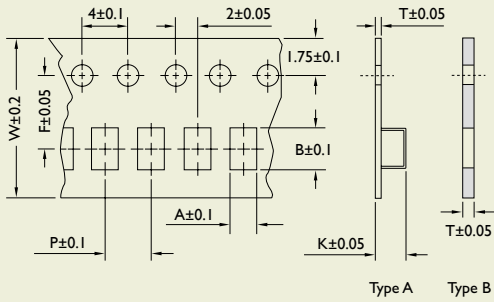
| PART NO. | IMPEDANCE (μH) | TOLERANCE (\pm%) | Q Min. | TEST FREQUENCY (MHz) | SRF (MHz) Min. | DC RESISTANCE (Ω) Max. | IDC (mA) Max. |
|------------------|--|--|-------------------|-------------------------------------|---------------------------|---|--------------------------|
| CL321611T-47NM-N | 0.047 | 20 | 20 | 50 | 320 | 0.15 | 300 |
| CL321611T-68NM-N | 0.068 | 20 | 20 | 50 | 280 | 0.25 | 300 |
| CL321611T-82NM-N | 0.082 | 20 | 20 | 50 | 250 | 0.25 | 300 |
| CL321611T-R10□-N | 0.10 | 10 / 20 | 25 | 25 | 235 | 0.25 | 250 |
| CL321611T-R12□-N | 0.12 | 10 / 20 | 25 | 25 | 220 | 0.30 | 250 |
| CL321611T-R15□-N | 0.15 | 10 / 20 | 25 | 25 | 200 | 0.30 | 250 |
| CL321611T-R18□-N | 0.18 | 10 / 20 | 25 | 25 | 185 | 0.40 | 250 |
| CL321611T-R22□-N | 0.22 | 10 / 20 | 25 | 25 | 170 | 0.40 | 250 |
| CL321611T-R27□-N | 0.27 | 10 / 20 | 25 | 25 | 150 | 0.50 | 250 |
| CL321611T-R33□-N | 0.33 | 10 / 20 | 25 | 25 | 145 | 0.50 | 250 |
| CL321611T-R39□-N | 0.39 | 10 / 20 | 25 | 25 | 135 | 0.50 | 200 |
| CL321611T-R47□-N | 0.47 | 10 / 20 | 25 | 25 | 125 | 0.60 | 200 |
| CL321611T-R56□-N | 0.56 | 10 / 20 | 25 | 25 | 115 | 0.70 | 150 |
| CL321611T-R68□-N | 0.68 | 10 / 20 | 25 | 25 | 105 | 0.80 | 150 |
| CL321611T-R82□-N | 0.82 | 10 / 20 | 25 | 25 | 100 | 0.90 | 150 |
| CL321611T-1R0□-N | 1.00 | 10 / 20 | 45 | 10 | 75 | 0.40 | 100 |
| CL321611T-1R2□-N | 1.20 | 10 / 20 | 45 | 10 | 65 | 0.50 | 100 |
| CL321611T-1R5□-N | 1.50 | 10 / 20 | 45 | 10 | 60 | 0.50 | 80 |
| CL321611T-1R8□-N | 1.80 | 10 / 20 | 45 | 10 | 55 | 0.50 | 70 |
| CL321611T-2R2□-N | 2.20 | 10 / 20 | 45 | 10 | 50 | 0.60 | 60 |
| CL321611T-2R7□-N | 2.70 | 10 / 20 | 45 | 10 | 45 | 0.60 | 60 |
| CL321611T-3R3□-N | 3.30 | 10 / 20 | 45 | 10 | 41 | 0.70 | 60 |
| CL321611T-3R9□-N | 3.90 | 10 / 20 | 45 | 10 | 38 | 0.80 | 50 |
| CL321611T-4R7□-N | 4.70 | 10 / 20 | 45 | 10 | 35 | 0.90 | 50 |
| CL321611T-5R6□-N | 5.60 | 10 / 20 | 45 | 4 | 32 | 0.70 | 25 |
| CL321611T-6R8□-N | 6.80 | 10 / 20 | 45 | 4 | 29 | 0.80 | 25 |
| CL321611T-8R2□-N | 8.20 | 10 / 20 | 45 | 4 | 26 | 0.90 | 25 |
| CL321611T-100□-N | 10 | 10 / 20 | 45 | 2 | 24 | 1.00 | 25 |
| CL321611T-120□-N | 12 | 10 / 20 | 45 | 2 | 22 | 1.00 | 15 |
| CL321611T-150□-N | 15 | 10 / 20 | 35 | 1 | 19 | 0.70 | 5 |
| CL321611T-180□-N | 18 | 10 / 20 | 35 | 1 | 18 | 0.75 | 5 |
| CL321611T-220□-N | 22 | 10 / 20 | 35 | 1 | 16 | 0.90 | 5 |
| CL321611T-270□-N | 27 | 10 / 20 | 35 | 1 | 14 | 0.90 | 5 |
| CL321611T-330□-N | 33 | 10 / 20 | 35 | 1 | 13 | 1.05 | 5 |

Note:
Tolerance: K = \pm 10%, M = \pm 20%



TAPE DIMENSIONS

Unit: mm

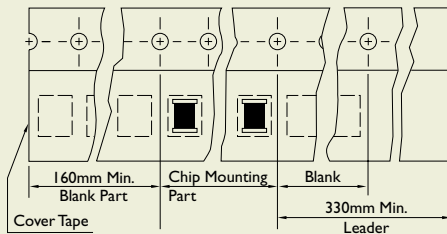


| TYPE | A | B | T | W | P | F | K | TAPE TYPE |
|----------|------|------|------|-----|-----|-----|------|-----------|
| CL100505 | 0.65 | 1.15 | 0.60 | 8.0 | 2.0 | 3.5 | - | B |
| CL160808 | 1.05 | 1.85 | 0.95 | 8.0 | 4.0 | 3.5 | - | B |
| CL201209 | 1.50 | 2.30 | 0.97 | 8.0 | 4.0 | 3.5 | - | B |
| CL201212 | 1.35 | 2.25 | 0.22 | 8.0 | 4.0 | 3.5 | 1.35 | A |
| CL321611 | 1.88 | 3.50 | 0.22 | 8.0 | 4.0 | 3.5 | 1.27 | A |

TAPE MATERIAL

Carrier Tape : Polystyrene (Type A), Paper (Type B)

Cover Tape : Polyethyeniene

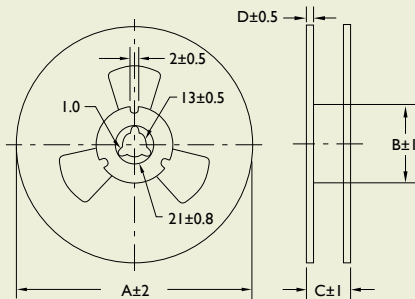


PACKAGING QUANTITY

| TYPE | QUANTITY/REEL |
|----------|---------------|
| CL100505 | 10,000 |
| CL160808 | 4,000 |
| CL201209 | 4,000 |
| CL201212 | 3,000 |
| CL321611 | 3,000 |

REEL DIMENSIONS

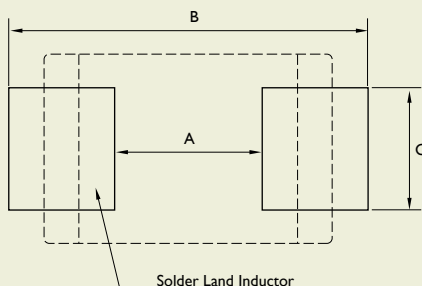
Unit: mm



| TYPE | A | B | C | D |
|----------|-----|----|----|-----|
| CL100505 | 178 | 60 | 12 | 1.5 |
| CL160808 | 178 | 60 | 12 | 1.5 |
| CL201209 | 178 | 60 | 12 | 1.5 |
| CL201212 | 178 | 60 | 12 | 1.5 |
| CL321611 | 178 | 60 | 12 | 1.5 |

RECOMMENDED PATTERN

Unit: mm

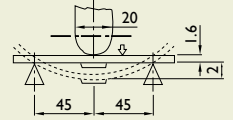


| TYPE | A | B | C |
|----------|-----------|-----------|-----------|
| CL100505 | 0.40 | 1.2 ~ 1.4 | 0.50 |
| CL160808 | 0.7 ~ 0.8 | 1.8 ~ 2.0 | 0.6 ~ 0.8 |
| CL201209 | 1.0 ~ 1.2 | 2.6 ~ 4.0 | 1.0 ~ 1.2 |
| CL201212 | 1.0 ~ 1.2 | 2.6 ~ 4.0 | 1.0 ~ 1.2 |
| CL321611 | 2.00 | 4.2 ~ 5.2 | 1.20 |

CL SERIES RELIABILITY TEST

I-1 MECHANICAL PERFORMANCE

| NO. | ITEM | SPECIFICATION | TEST CONDITIONS |
|-------|------------------------------|---|--|
| I-1-1 | Flexure Strength | The forces applied on the right conditions must not damage the terminal electrode and the ferrite. | Test device shall be soldered on the substrate. Substrate Dimension: 100 x 40 x 1.6 mm Deflection: 2.0 mm Keeping Time: 30 sec *For: I00505, substrate dimension is 100 x 40 x 0.8 mm |
| I-1-2 | Vibration | | Test device shall be soldered on the substrate. Oscillation Frequency: 10 to 55 to 10 Hz for 1 Min. Amplitude: 1.5 mm Time: 2 Hrs. for each Axis (X,Y & Z), Total 6 Hrs. |
| I-1-3 | Resistance to Soldering Heat | Appearance: No damage More than 75% of the terminal electrode should be covered with solder. Inductance: within $\pm 15\%$ of initial value Q change: within $\pm 30\%$ of initial value | Pre-heating: 150 °C, 1 Min. Solder Composition: Sn/Pb = 63/37 Solder Composition: Sn/Ag/Cu = 96.5/3.0/0.5 (Pb-Free) Solder Temperature: 260 \pm 5 °C Immersion Time: 10 \pm 1 Sec. |
| I-1-4 | Solderability | The electrodes shall be at least 90% covered with new solder coating. | Pre-heating: 150 °C, 1 Min. Solder Composition: Sn/Pb = 63/37 Solder Temperature: 220 \pm 5 Solder Composition: Sn/Ag/Cu = 96.5/3.0/0.5 (Pb-Free) Solder Temperature: 245 \pm 5 °C Immersion Time: 4 \pm 1 Sec. |



I-2 ENVIRONMENTAL PERFORMANCE

| NO. | ITEM | SPECIFICATION | TEST CONDITIONS | | | | | | | | | | | | | | | |
|-------|-----------------------------|---|--|------|------------------|-------------|---|-------------|----|---|-------------|---|---|------------|----|---|------------|---|
| I-2-1 | Temperature Cycle | Appearance: No damage Inductance: within $\pm 10\%$ of initial value Q change: within $\pm 30\%$ of initial value | One Cycle <table border="1"> <thead> <tr> <th>Step</th> <th>Temperature (°C)</th> <th>Time (Min.)</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>-25 \pm 3</td> <td>30</td> </tr> <tr> <td>2</td> <td>-25 \pm 2</td> <td>3</td> </tr> <tr> <td>3</td> <td>85 \pm 3</td> <td>30</td> </tr> <tr> <td>4</td> <td>25 \pm 2</td> <td>3</td> </tr> </tbody> </table> Total: 100 Cycles Measured after exposure in the room condition for 24 Hrs. | Step | Temperature (°C) | Time (Min.) | 1 | -25 \pm 3 | 30 | 2 | -25 \pm 2 | 3 | 3 | 85 \pm 3 | 30 | 4 | 25 \pm 2 | 3 |
| Step | Temperature (°C) | Time (Min.) | | | | | | | | | | | | | | | | |
| 1 | -25 \pm 3 | 30 | | | | | | | | | | | | | | | | |
| 2 | -25 \pm 2 | 3 | | | | | | | | | | | | | | | | |
| 3 | 85 \pm 3 | 30 | | | | | | | | | | | | | | | | |
| 4 | 25 \pm 2 | 3 | | | | | | | | | | | | | | | | |
| I-2-2 | Humidity Resistance | | Temperature: 40 \pm 2 °C Relative Humidity: 90 ~ 95% Time: 1,000 Hrs. Measured after exposure in the room condition for 24 Hrs. | | | | | | | | | | | | | | | |
| I-2-3 | High Temperature Resistance | | Temperature: 85 \pm 3 °C Relative Humidity: 20% Applied Current: Rated Current Time: 1,000 Hrs. Measured after exposure in the room condition for 24 Hrs. | | | | | | | | | | | | | | | |
| I-2-4 | Low Temperature Resistance | | Temperature: -25 \pm 3 °C Relative Humidity: 0% Time: 1,000 Hrs. Measured after exposure in the room condition for 24 Hrs. | | | | | | | | | | | | | | | |

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[NIN-FC2R7JTRF](#) [NPIS27H102MTRF](#) [C1206C101J1GAC](#) [C1608C0G1E472JT000N](#) [C2012C0G2A472J](#) [2220J2K00101JCT](#)
[KHC201E225M76N0T00](#) [LRC-LRF1206LF-01R025FTR1K](#) [1812J1K00222JCT](#) [1812J2K00102KXT](#) [1812J2K00222KXT](#)
[1812J2K00472KXT](#) [2-1622820-7-CUT-TAPE](#) [2220J3K00102KXT](#) [2225J2500824KXT](#) [CCR07CG103KM](#) [CGA2B2C0G1H010C](#)
[CGA2B2C0G1H040C](#) [CGA2B2C0G1H050C](#) [CGA2B2C0G1H060D](#) [CGA2B2C0G1H070D](#) [CGA2B2C0G1H151J](#) [CGA2B2C0G1H1R5C](#)
[CGA2B2C0G1H2R2C](#) [CGA2B2C0G1H3R3C](#) [CGA2B2C0G1H680J](#) [CGA2B2C0G1H6R8D](#) [CGA2B2X8R1H221K](#) [CGA2B2X8R1H472K](#)
[CGA3E1X7R1C474K](#)