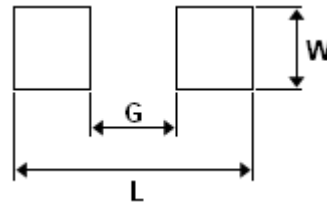


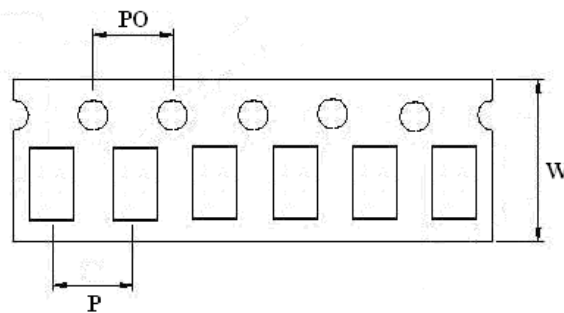
# SPECIFICATION FOR APPROVAL

PAD LAYOUT: (UNIT: mm)

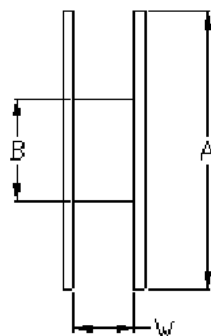
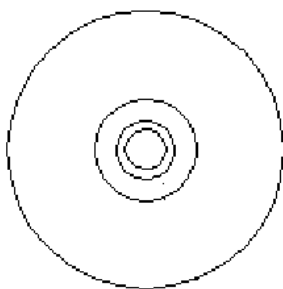


| ITEM   | L (Ref.) | W (Ref.) | G (Ref.) |
|--------|----------|----------|----------|
| CL1608 | 2.6      | 0.8      | 0.6      |
| CL2012 | 3.0      | 1.0      | 1.0      |
| CL3216 | 4.4      | 1.4      | 2.2      |

PACKAGING QUANTITY: (UNIT: mm)



| TYPE   | P (Ref) | Po(Ref) | W (Ref) | PCS / REEL |
|--------|---------|---------|---------|------------|
| CL1608 | 4.0     | 4.0     | 8.0     | 4000       |
| CL2012 | 4.0     | 4.0     | 8.0     | 4000       |
| CL3216 | 4.0     | 4.0     | 8.0     | 3000       |



| TYPE   | A (Ref) | B (Ref) | W (Ref) |
|--------|---------|---------|---------|
| CL1608 | 178     | 60      | 9       |
| CL2012 | 178     | 60      | 9       |
| CL3216 | 178     | 60      | 9       |

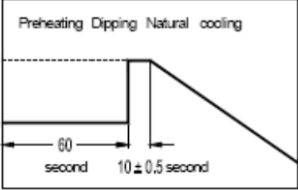
CORE MASTER ENTERPRISE CO., LTD.

<http://www.coremaster.com.tw>



# SPECIFICATION FOR APPROVAL

## RELIABILITY AND TEST CONDITIONS:

| Item                             | Performance   | Test Condition   |       |                 |           |   |               |            |   |            |    |   |                |            |   |            |    |
|----------------------------------|---|--|-------|-----------------|-----------|---|---------------|------------|---|------------|----|---|----------------|------------|---|------------|----|
| Operating Temperature            | -40~+125°C  |  |       |                 |           |   |               |            |   |            |    |   |                |            |   |            |    |
| Rated Current                    | Refer to standard electrical characteristics list.                                |  |       |                 |           |   |               |            |   |            |    |   |                |            |   |            |    |
| Temperature Rise Test            | 40°C max. ( $\Delta t$ )  |  |       |                 |           |   |               |            |   |            |    |   |                |            |   |            |    |
| Solder heat Resistance           | Appearance: No significant abnormality.<br>Inductance change: Within $\pm 30\%$ . | Preheat: 150°C, 60sec.<br>Solder : H63A<br>Solder temperature: 260+0-5°C<br>Flux: rosin<br>Dip time: 10 $\pm$ 0.5sec. <div style="text-align: right;">  </div>  |       |                 |           |   |               |            |   |            |    |   |                |            |   |            |    |
| Thermal shock                    |   | Condition for 1 cycle<br>Step1: -25 $\pm$ 2°C<br>30 $\pm$ 3 min.<br>Step2: Room temperature 15 min.<br>Step3: +105 $\pm$ 2°C<br>30 $\pm$ 3 min.<br>Step4: Room temperature 15 min.<br>Number of cycles: 50 <table border="1" style="margin-left: auto; margin-right: auto;"> <thead> <tr> <th>Phase</th> <th>Temperature(°C)</th> <th>Time(min)</th> </tr> </thead> <tbody> <tr> <td style="text-align: center;">1</td> <td style="text-align: center;">-25<math>\pm</math>2°C</td> <td style="text-align: center;">30<math>\pm</math>3</td> </tr> <tr> <td style="text-align: center;">2</td> <td style="text-align: center;">Room Temp.</td> <td style="text-align: center;">15</td> </tr> <tr> <td style="text-align: center;">3</td> <td style="text-align: center;">+105<math>\pm</math>2°C</td> <td style="text-align: center;">30<math>\pm</math>3</td> </tr> <tr> <td style="text-align: center;">4</td> <td style="text-align: center;">Room Temp.</td> <td style="text-align: center;">15</td> </tr> </tbody> </table> | Phase | Temperature(°C) | Time(min) | 1 | -25 $\pm$ 2°C | 30 $\pm$ 3 | 2 | Room Temp. | 15 | 3 | +105 $\pm$ 2°C | 30 $\pm$ 3 | 4 | Room Temp. | 15 |
| Phase                            | Temperature(°C)   | Time(min)  |       |                 |           |   |               |            |   |            |    |   |                |            |   |            |    |
| 1                                | -25 $\pm$ 2°C   | 30 $\pm$ 3   |       |                 |           |   |               |            |   |            |    |   |                |            |   |            |    |
| 2                                | Room Temp.  | 15   |       |                 |           |   |               |            |   |            |    |   |                |            |   |            |    |
| 3                                | +105 $\pm$ 2°C  | 30 $\pm$ 3   |       |                 |           |   |               |            |   |            |    |   |                |            |   |            |    |
| 4                                | Room Temp.  | 15   |       |                 |           |   |               |            |   |            |    |   |                |            |   |            |    |
| Humidity Resistance Test         | Appearance: no damage<br>Inductance: within $\pm 30\%$ of initial value.          | Measured: 50 times<br>Temperature: 40 $\pm$ 2°C.<br>Applied current: rated current.<br>Duration: 500 hrs.<br>Humidity: 90~95%  |       |                 |           |   |               |            |   |            |    |   |                |            |   |            |    |
| High Temperature Resistance Test |   | Temperature: 105 $\pm$ 2°C.<br>Applied current: rated current.<br>Duration: 500 hrs.   |       |                 |           |   |               |            |   |            |    |   |                |            |   |            |    |