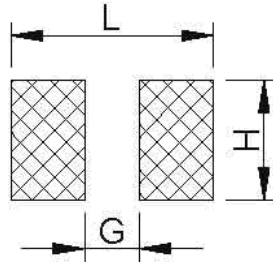


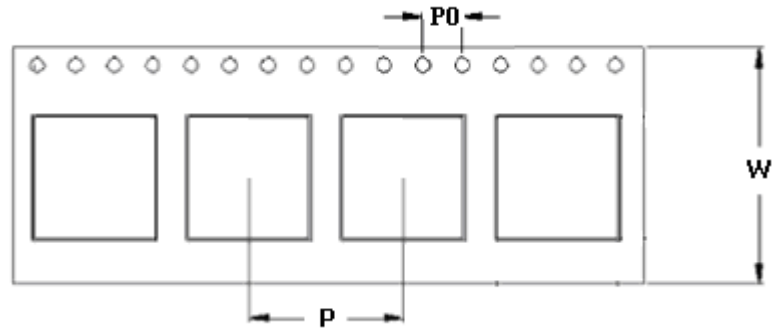
# SPECIFICATION FOR APPROVAL

PAD LAYOUT: (UNIT: mm)



| ITEM    | L (Ref.) | G (Ref.) | H (Ref.) |
|---------|----------|----------|----------|
| TPY0603 | 7.0      | 4.0      | 2.2      |
| TPY0604 | 7.0      | 4.0      | 2.2      |
| TPY0605 | 7.0      | 4.0      | 2.2      |
| TPY0703 | 7.9      | 4.9      | 2.2      |
| TPY0705 | 7.9      | 4.9      | 2.2      |
| TPY1003 | 10.6     | 5.6      | 3.2      |
| TPY1004 | 10.6     | 5.6      | 3.2      |

PACKAGING QUANTITY:



| TYPE    | P          | P0        | W          | BULK | PCS / REEL |
|---------|------------|-----------|------------|------|------------|
| TPY0603 | 8.0 ± 0.1  | 4.0 ± 0.1 | 16.0 ± 0.3 | v    | 2500       |
| TPY0604 | 8.0 ± 0.1  | 4.0 ± 0.1 | 16.0 ± 0.3 | v    | 1000       |
| TPY0605 | 8.0 ± 0.1  | 4.0 ± 0.1 | 16.0 ± 0.3 | v    | 1000       |
| TPY0703 | 12.0 ± 0.1 | 4.0 ± 0.1 | 16.0 ± 0.3 | v    | 1000       |
| TPY0705 | 12.0 ± 0.1 | 4.0 ± 0.1 | 16.0 ± 0.3 | v    | 1000       |
| TPY1003 | 12.0 ± 0.1 | 4.0 ± 0.1 | 24.0 ± 0.3 | v    | 1500       |
| TPY1004 | 12.0 ± 0.1 | 4.0 ± 0.1 | 24.0 ± 0.3 | v    | 1000       |

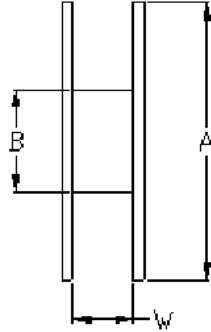
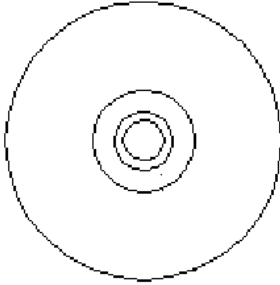
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# SPECIFICATION FOR APPROVAL

PACKAGING QUANTITY:



| TYPE    | A   | B   | W    |
|---------|-----|-----|------|
| TPY0603 | 330 | 100 | 16.5 |
| TPY0604 | 330 | 100 | 16.5 |
| TPY0605 | 330 | 100 | 16.5 |
| TPY0703 | 330 | 100 | 16.5 |
| TPY0705 | 330 | 100 | 16.5 |
| TPY1003 | 330 | 100 | 24.5 |
| TPY1004 | 330 | 100 | 24.5 |

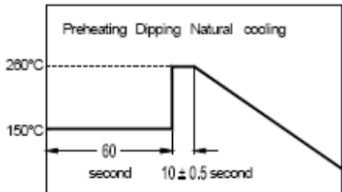
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# SPECIFICATION FOR APPROVAL

## 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                    | Appearance: no damage<br>Inductance: within $\pm 30\%$ of initial value.  | Condition for 1 cycle<br>Step1: -25 $\pm$ 2°C<br>30 $\pm$ 3 min.<br>Step2: Room temperature 15 min.<br>Step3: +85 $\pm$ 5°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;">+85<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 | +85 $\pm$ 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                                | +85 $\pm$ 2°C   | 30 $\pm$ 3   |            |                 |           |   |               |            |   |            |    |   |               |            |   |            |    |
| 4                                | Room Temp.  | 15   |            |                 |           |   |               |            |   |            |    |   |               |            |   |            |    |
| Humidity Resistance Test         | Measured: 50 times<br><br>Temperature: 40 $\pm$ 2°C.<br>Applied current: rated current.<br>Duration: 500 hrs.<br>Humidity: 90~95% |  |            |                 |           |   |               |            |   |            |    |   |               |            |   |            |    |
| High Temperature Resistance Test | Temperature: 85 $\pm$ 2°C.<br>Applied current: rated current.<br>Duration: 500 hrs.   |  |            |                 |           |   |               |            |   |            |    |   |               |            |   |            |    |

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