

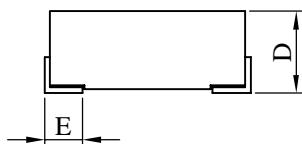
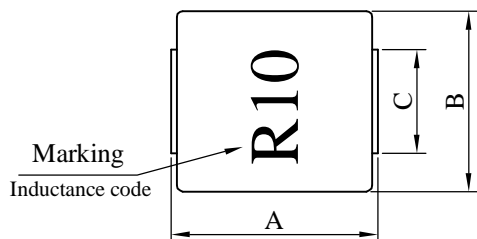
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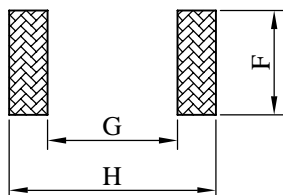
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| | | | |
|------------|--------------------------------|----------------|------------------|
| PROD. NAME | SHIELDED SMD POWER INDUCTOR | ABC'S DWG No. | HP0603□□□□2□-□□□ |
| | | ABC'S ITEM No. | |

I . MECHANICAL DIMENSIONS :

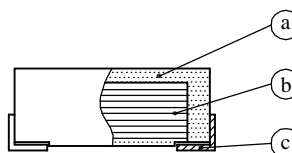
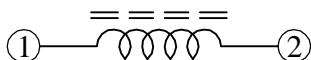


- A : 7.20 ± 0.3 m/m
- B : 6.50 ± 0.2 m/m
- C : 3.00 ± 0.3 m/m
- D : 3.00 max. m/m
- E : 1.70 ± 0.5 m/m
- F : 3.40 typ. m/m
- G : 3.70 typ. m/m
- H : 7.40 typ. m/m



(PCB Pattern)

II . SCHEMATIC DIAGRAM :



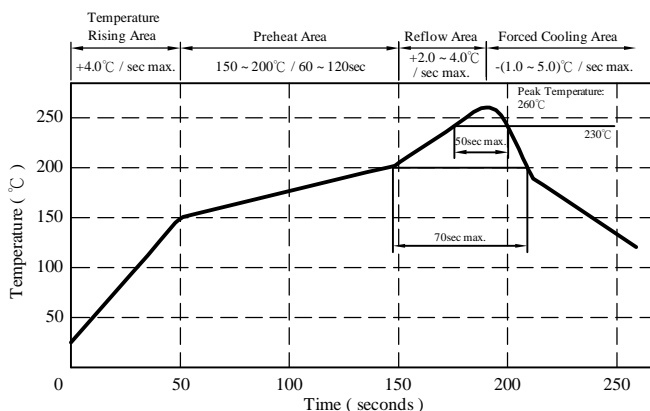
III . MATERIALS LIST :

- a . Core : Iron powder
- b . Wire : Enamelled copper wire
- c . Cilp : Cu / Ni /Sn
- d . Remark : Products comply with RoHS' requirements

Peak Temp : 260°C max.
 Max time above 230°C : 50sec max.
 Max time above 200°C : 70sec max.

IV . GENERAL SPECIFICATION :

- a . Storage temp. : -55°C ~ +125°C
- b . Operating temp. : -55°C ~ +125°C
(Temp. rise included)
- c . Resistance to solder heat : 260°C. 10 secs.



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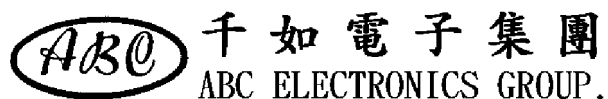
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V . ELECTRICAL CHARACTERISTICS :

| DWG No. | Inductance L (μ H) | Isat(A) typ | Irms(A) typ | RDC ($m\Omega$) | |
|------------------|-----------------------------|----------------|----------------|----------------------|-------|
| | | | | max. | typ. |
| HP0603R10M2□-□□□ | 0.10 \pm 20 % | 60.0 | 32.0 | 2.0 | 1.5 |
| HP0603R15M2□-□□□ | 0.15 \pm 20 % | 52.0 | 26.0 | 2.5 | 2.0 |
| HP0603R22M2□-□□□ | 0.22 \pm 20 % | 40.0 | 23.0 | 3.0 | 2.5 |
| HP0603R33M2□-□□□ | 0.33 \pm 20 % | 30.0 | 20.0 | 4.0 | 3.5 |
| HP0603R47M2□-□□□ | 0.47 \pm 20 % | 26.0 | 17.0 | 4.5 | 4.0 |
| HP0603R56M2□-□□□ | 0.56 \pm 20 % | 19.0 | 16.0 | 5.5 | 5.0 |
| HP0603R68M2□-□□□ | 0.68 \pm 20 % | 25.0 | 15.0 | 5.5 | 5.0 |
| HP0603R82M2□-□□□ | 0.82 \pm 20 % | 24.0 | 13.0 | 8.0 | 7.0 |
| HP06031R0M2□-□□□ | 1.00 \pm 20 % | 22.0 | 11.0 | 10.0 | 9.0 |
| HP06031R5M2□-□□□ | 1.50 \pm 20 % | 18.0 | 9.0 | 15.0 | 14.0 |
| HP06032R2M2□-□□□ | 2.20 \pm 20 % | 14.0 | 8.0 | 20.0 | 18.0 |
| HP06033R3M2□-□□□ | 3.30 \pm 20 % | 13.5 | 6.0 | 30.0 | 28.0 |
| HP06034R7M2□-□□□ | 4.70 \pm 20 % | 10.0 | 5.5 | 40.0 | 37.0 |
| HP06036R8M2□-□□□ | 6.80 \pm 20 % | 8.0 | 4.5 | 60.0 | 54.0 |
| HP06038R2M2□-□□□ | 8.20 \pm 20 % | 7.5 | 4.0 | 68.0 | 64.0 |
| HP0603100M2□-□□□ | 10.0 \pm 20 % | 7.0 | 3.0 | 105.0 | 102.0 |

- 1). □ : Packaging information ... Bulk Taping Reel
- 2). "-□□□":Reference code
- 3). Measured frequency of inductance is 100 KHz / 0.25V
- 4). Isat base on inductance drop 20% typ. of L value at 20°C
- 5). Irms base on temp. rise 40°C typ.

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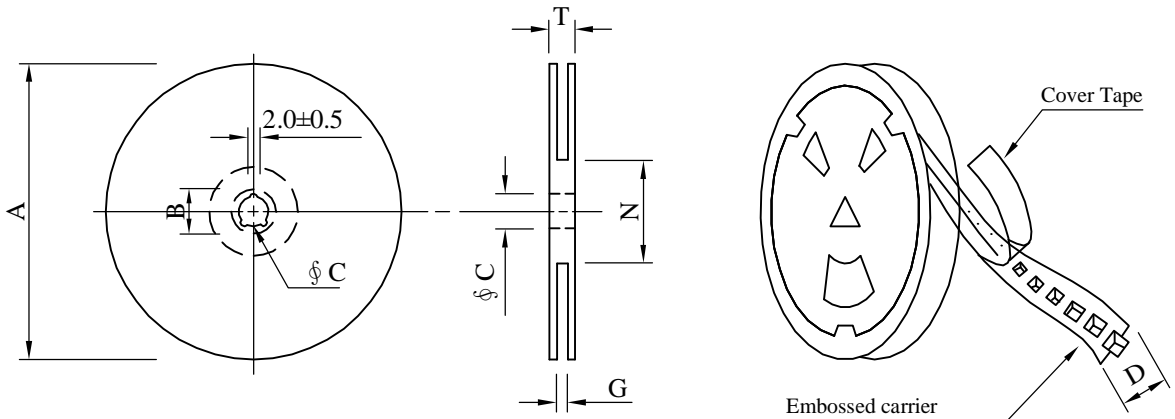
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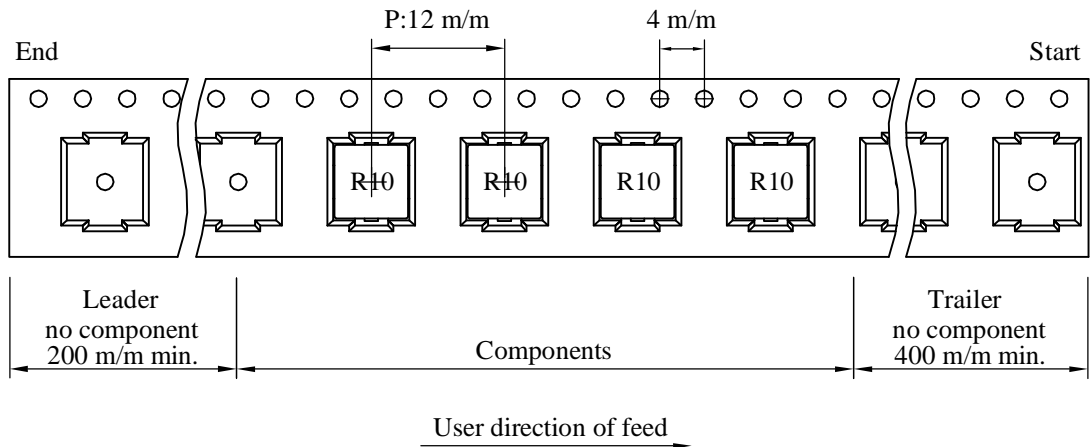
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VI . PACKAGING INFORMATION :

(1) Configuration



※Carrier tape width : D



(2) Dimensions

Unit:m/m

| Style | A | B | C | D | G | N | T |
|---------|-----|--------|--------|----|------------------|------------------|------|
| 13 - 16 | 330 | 21±0.8 | 13±0.5 | 16 | 18 ⁺⁰ | 50 ⁻⁰ | 22.4 |

(3) Q'TY & G.W. Per package

| Series | Inner : Reel | | | Outer : Carton | | |
|--------|--------------|-----------|---------|----------------|-----------|--------------|
| | Q'TY (pcs) | G.W. (gw) | Style | Q'TY (pcs) | G.W. (Kg) | Size (cm) |
| HP0603 | 1,500 | 1,250 | 13 - 16 | 9,000 | 8.00 | 38 x 37 x 22 |

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|---------------|------------------------------------|-------------------------------------|------------------|

VIII . RELIABILITY TEST :

| Test item | Specification | Test condition | | | | | | |
|---------------------------------------|-----------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------|---|----------------------|--------------------------|---|-----------------------|
| Solderability | More than 95% of the terminal electrode shall be covered With fresh solder. | Preconditioning: 150°C/16Hrs±30min Dry Bake Solder : Sn96.5 / Ag3 / Cu0.5 or equivalent Solder temp. :245±5°C Flux : Rosin Dip time: 5±0.5sec | | | | | | |
| Thermal shock test (Temp. cycle) | Electrical oharacteristics shall not change more than ±20% | <table style="width: 100%; border: none;"> <tr> <td style="text-align: center;">Room temp. 15 minutes</td> <td style="text-align: center; vertical-align: middle;">→</td> <td style="text-align: center;">-55 °C 30 minutes</td> </tr> <tr> <td style="text-align: center;">Room temp. 15 minutes</td> <td style="text-align: center; vertical-align: middle;">→</td> <td style="text-align: center;">+125 °C 30 minutes</td> </tr> </table> <p>Total : 50 cycles</p> | Room temp. 15 minutes | → | -55 °C 30 minutes | Room temp. 15 minutes | → | +125 °C 30 minutes |
| Room temp. 15 minutes | | → | -55 °C 30 minutes | | | | | |
| Room temp. 15 minutes | | → | +125 °C 30 minutes | | | | | |
| Humidity Test | | Temperature : 40±2°C Humidity : 90±5% Time : 1000 hours | | | | | | |
| High temp. Resistance test | Temperature : 125±5°C Applied current : Per spec. Time : 96 hours | | | | | | | |

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| | | ABC'S ITEM No. | |

IX . UL CARD :

OBMW2 September 8, 2000
 Magnet Wire-Component
 JUNG SHING WIRE CO LTD E174837
 231 CHUNG CHENG RD, SEC 3 JEN-TEH HSIANG, TAINAN
 HSIEN TAIWAN

| Mtl Dsg | Mark Dsg | BC | Coat Typ | OC | ANSI Type | Temp Class |
|-------------|----------|--------------------|--------------------|-----|-----------|------------|
| AIW | --- | Polyamideimide | | --- | MW81-C | 220 |
| CFUEWB | --- | Polyurethane | | --- | MW75C | 130 |
| EIAIW | --- | Polyesterimide | Polyamideimide | --- | MW35C | 200 |
| EILOCKY | --- | Polyesterimide | Polyamide | --- | --- | 180 |
| EILOCKW | --- | Polyesterimide | Modified Epoxy | --- | --- | 200 |
| EIW | --- | Polyesterimide | | --- | --- | 220 |
| EIW-2 | --- | Polyesterimide | | --- | MW74-C | 200 |
| FL.EILOCKY | --- | Modified Polyester | Polyamide | --- | --- | 155 |
| LSFFW | --- | Polyurethane | | --- | MW79-C | 155 |
| LSUEW | --- | Polyurethane | | --- | --- | 130 |
| PEW | --- | Polyester | | --- | --- | 155 |
| PEY | --- | Polyester | Nylon | --- | MW24-C | 155 |
| SF.FLW | --- | Modified Polyester | | --- | MW26C | 155 |
| SF.EIW | --- | Polyesterimide | | --- | MW77C | 180 |
| SF.BY@ | --- | Modified Polyester | Nylon | --- | MW27-C | 155 |
| SF.FLY@ | --- | Modified Polyester | Nylon | --- | MW27-C | 155 |
| SF.BLOCKBS | --- | Modified Polyester | Modified Polyamide | --- | --- | 155 |
| SF.EILOCKY# | --- | Polyesterimide | Polyamide | --- | --- | 180 |
| SF.EILOCKBS | --- | Polyesterimide | Modified Polyamide | --- | --- | 180 |
| SF.BW@ | --- | Modified Polyester | | --- | MW26C | 155 |
| SFFW | --- | Polyurethane | | --- | MW79 | 155 |

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| Mtl Dsg | Mark Dsg | BC | Coat Typ | OC | ANSI Type | Temp Class |
|---------|----------|--------------|----------|-----------|-----------|------------|
| SFFY | --- | Polyurethane | | Polyamide | MW80C | 155 |
| UEW-1 | --- | Polyurethane | | --- | MW2-C | 105 |
| UEW-2 | --- | Polyurethane | | --- | --- | 130 |
| UEW-4 | --- | Polyurethane | | --- | MW75C | 130 |
| UEY | --- | Polyurethane | | Nylon | MW28-C | 130 |
| UEY-2 | --- | Polyurethane | | Polyamide | MW28-C | 130 |

@-May be suffixed by LZ; # - May be suffixed by LZ, EL or LZI.
 LZ - Signifies magened wires twisted together; EL - signifies base coated magnet wire laid parallel with top coat applied overall; LZL - signifies base coated magnet wire twisted together and covered with top coat overall.

Marking: Company name or trademarks or , material designation or marked designation on packaed or reel, and Recognized Component Mark.

See General Information Preceding These Recognitions
 For use only in equipment where the acceptability of the combination is determined by Underwriters Laboratories Inc.

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OBMW2E174837
September 8, 2000