

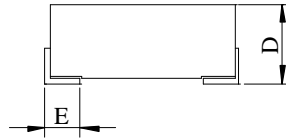
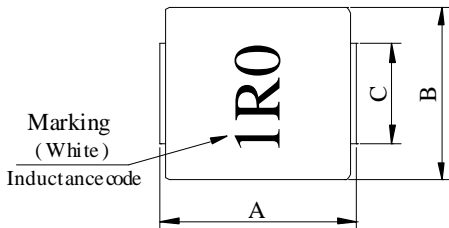
SPECIFICATION FOR APPROVAL

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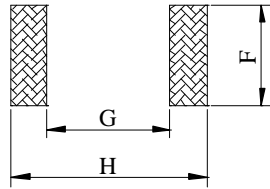
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| | | | |
|-------|----------------|----------------|------------------|
| PROD. | SHIELDED SMD | ABC'S DWG No. | HP1206□□□□2□-□□□ |
| NAME | POWER INDUCTOR | ABC'S ITEM No. | |

I . MECHANICAL DIMENSIONS :

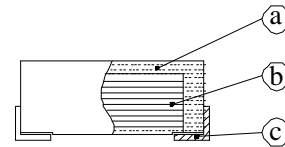
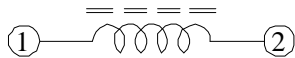


- A : 13.5±0.4 m/m
- B : 12.5±0.3 m/m
- C : 4.00±0.3 m/m
- D : 6.50 max. m/m
- E : 2.00±0.5 m/m
- F : 5.00 typ. m/m
- G : 8.00 typ. m/m
- H : 14.0 typ. m/m



(PCB Pattern)

II . SCHEMATIC DIAGRAM :



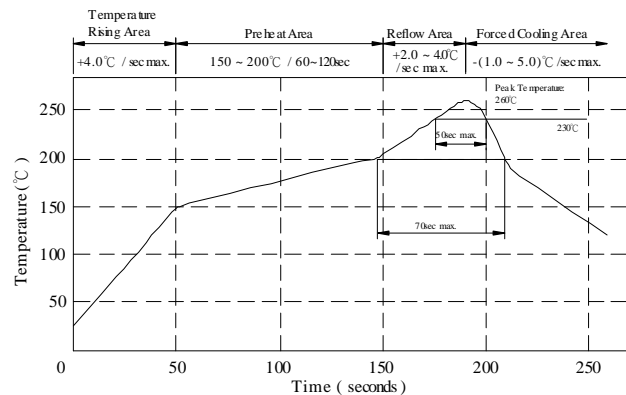
III . MATERIALS LIST :

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

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.

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



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|-------------------|--|-----------------------|-------------------------|
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| | | ABC'S ITEM No. | |

V . ELECTRICAL CHARACTERISTICS :

| DWG No. | Inductance (μH) | Isat(A) typ. | Irms(A) typ. | RDC (mΩ) | |
|------------------|----------------------|-----------------|-----------------|---------------|-------|
| | | | | max. | typ. |
| HP1206R10M2□-□□□ | 0.10 ± 20 % | 120.0 | 60.0 | 0.5 | 0.45 |
| HP1206R15M2□-□□□ | 0.15 ± 20 % | 118.0 | 55.0 | 0.6 | 0.55 |
| HP1206R22M2□-□□□ | 0.22 ± 20 % | 112.0 | 53.0 | 0.7 | 0.65 |
| HP1206R30M2□-□□□ | 0.30 ± 20 % | 72.0 | 48.0 | 0.8 | 0.70 |
| HP1206R33M2□-□□□ | 0.33 ± 20 % | 65.0 | 46.0 | 0.9 | 0.85 |
| HP1206R40M2□-□□□ | 0.40 ± 20 % | 64.0 | 44.0 | 1.0 | 0.90 |
| HP1206R47M2□-□□□ | 0.47 ± 20 % | 63.0 | 41.0 | 1.2 | 1.00 |
| HP1206R56M2□-□□□ | 0.56 ± 20 % | 62.0 | 37.0 | 1.4 | 1.20 |
| HP1206R68M2□-□□□ | 0.68 ± 20 % | 60.0 | 35.0 | 1.6 | 1.40 |
| HP1206R82M2□-□□□ | 0.82 ± 20 % | 50.0 | 33.0 | 1.9 | 1.60 |
| HP12061R0M2□-□□□ | 1.00 ± 20 % | 49.0 | 32.0 | 2.0 | 1.70 |
| HP12061R2M2□-□□□ | 1.20 ± 20 % | 48.0 | 30.0 | 2.5 | 2.00 |
| HP12061R5M2□-□□□ | 1.50 ± 20 % | 45.0 | 27.0 | 3.0 | 2.50 |
| HP12061R8M2□-□□□ | 1.80 ± 20 % | 41.0 | 24.0 | 3.2 | 3.00 |
| HP12062R2M2□-□□□ | 2.20 ± 20 % | 40.0 | 22.0 | 4.2 | 3.50 |
| HP12063R3M2□-□□□ | 3.30 ± 20 % | 35.0 | 18.0 | 6.8 | 6.00 |
| HP12064R7M2□-□□□ | 4.70 ± 20 % | 30.0 | 13.5 | 11.2 | 9.50 |
| HP12065R6M2□-□□□ | 5.60 ± 20 % | 26.5 | 13.5 | 12.0 | 11.00 |
| HP12066R8M2□-□□□ | 6.80 ± 20 % | 16.5 | 11.5 | 14.0 | 13.00 |
| HP12068R2M2□-□□□ | 8.20 ± 20 % | 16.0 | 10.5 | 15.5 | 14.50 |
| HP1206100M2□-□□□ | 10.0 ± 20 % | 15.5 | 10.0 | 17.0 | 16.00 |
| HP1206120M2□-□□□ | 12.0 ± 20 % | 14.0 | 9.0 | 30.0 | 28.00 |

- 1). □ : Packaging information ... A : Bulk B : 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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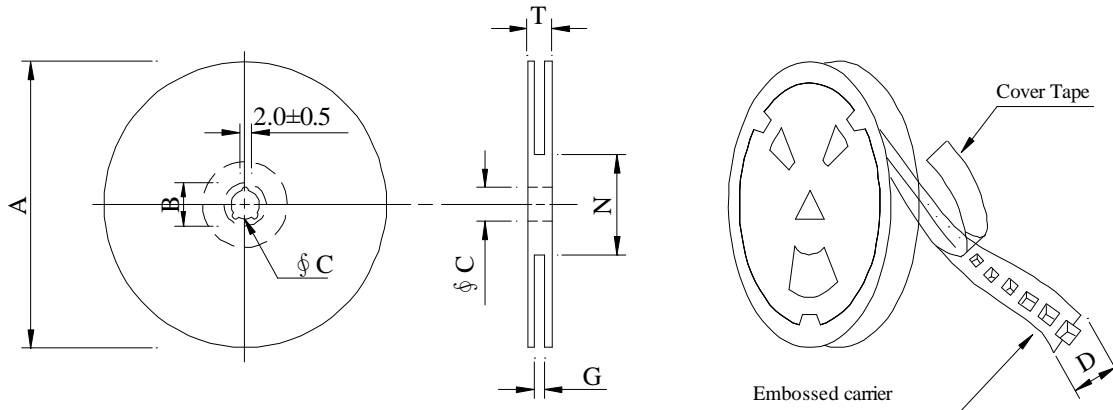
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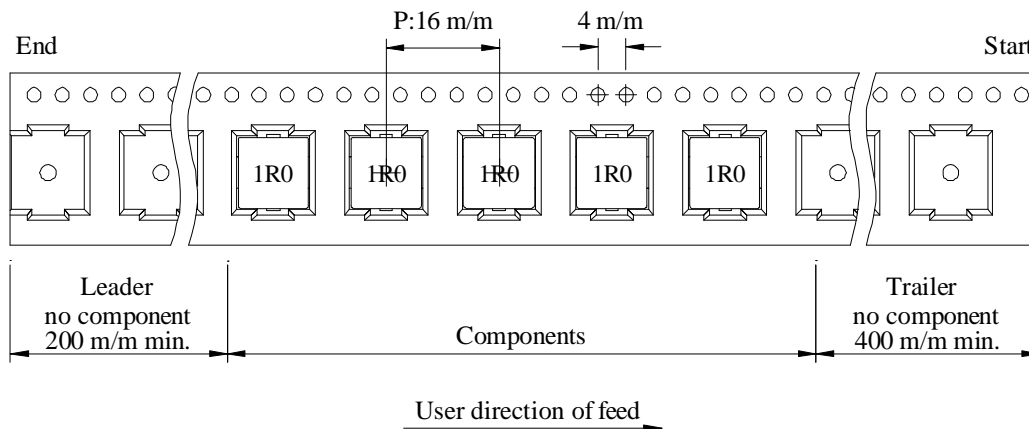
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| PROD. NAME | SHIELDED SMD POWER INDUCTOR | ABC'S DWG No. | HP1206□□□□2□-□□□ |
| | | ABC'S ITEM No. | |

VI . PACKAGING INFORMATION :

(1) Configuration



※Carrier tape width : D



(2) Dimensions

Unit:m/m

| Style | A | B | C | D | G | N | T |
|---------|-----|--------|--------|----|------------------|------------------|------|
| 13 - 24 | 330 | 21±0.8 | 13±0.5 | 24 | 26 ⁺⁰ | 50 ⁻⁰ | 30.4 |

(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) |
| HP1206 | 500 | 3,200 | 13 - 24 | 2,000 | 14.0 | 40 x 40 x 24 |

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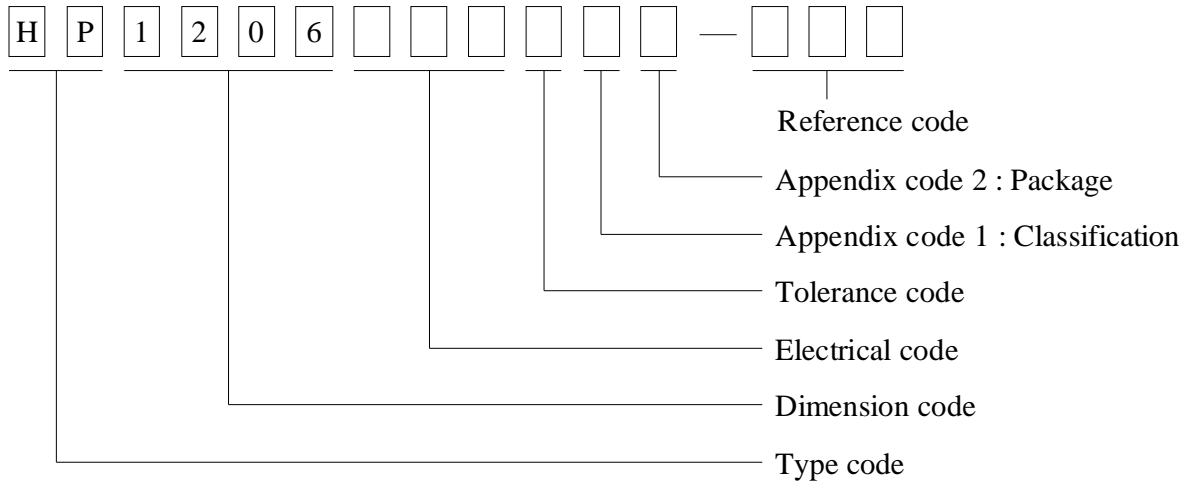
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|------------|--------------------------------|----------------|------------------|
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| | | ABC'S ITEM No. | |

VII . DWGING NUMBER EXPRESSION :



Appendix code 1 : Product Classification

- L : Lead Free Standard products comply with RoHS' requirements
- 1 ~ 9 : Lead Free Special products comply with RoHS' requirements

Appendix code 2 : Package Information

| Code | Inner package | Inner package QTY | Remark |
|------|------------------------|-------------------|--------|
| A | T.B.D. | T.B.D | |
| B | T / R (Reel package) | 500 pcs | |

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| | | | |
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| | | ABC'S ITEM No. | |

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;">→</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;">→</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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|---------------|------------------------------------|-------------------------------------|------------------|

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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A not-for-profit organization dedicated to public safety and committed to quality service

| 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 |

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OBMW2E174837
September 8, 2000

@ - May be suffixed by LZ; # - May be suffixed by LZ, EL or LZL.
LZ - Signifies magnd 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 JSW or 聚如電業, 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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