

# SPECIFICATIONS

Customer : \_\_\_\_\_

 Customer P/N: \_\_\_\_\_ ACW-  Series

Drawing No : \_\_\_\_\_

 Quantity : 0 Pcs. Date : 2017/09/06

 Meled P/N : \_\_\_\_\_ ACW-  Series/参照

| SPECIFICATION       |  |
|---------------------|--|
| ACCEPTED BY:        |  |
| COMPONENT ENGINEER  |  |
| ELECTRICAL ENGINEER |  |
| MECHANICAL ENGINEER |  |
| APPROVED            |  |
| REJECTED            |  |

**For Customer approval Only**

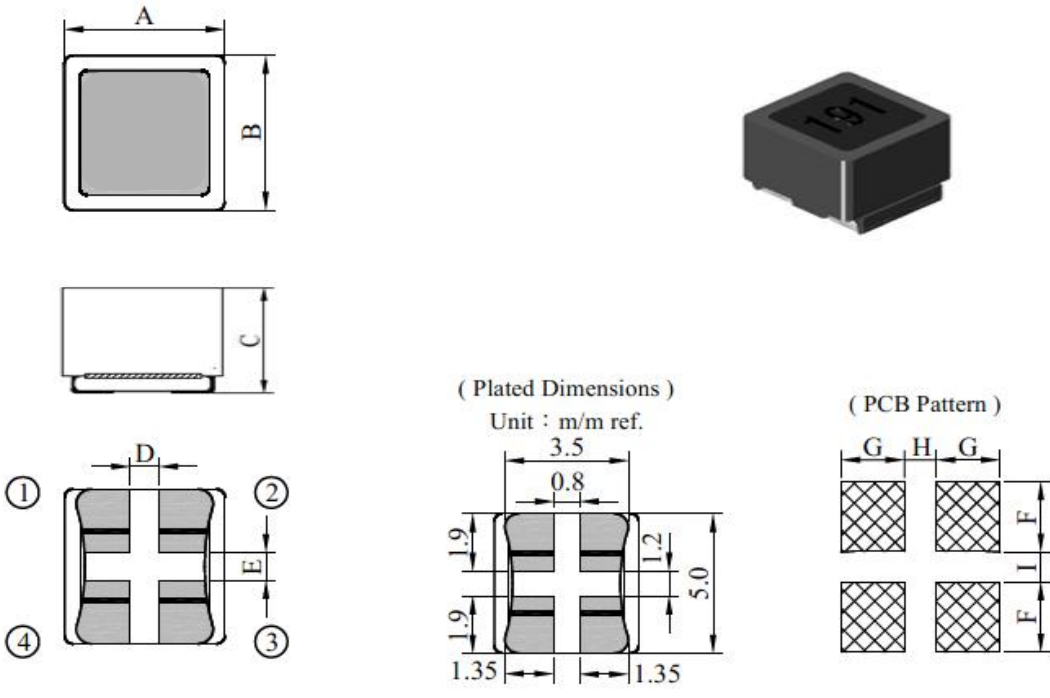
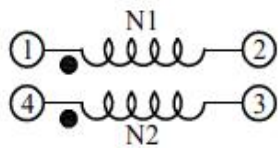
 Qualification Status:  Full  Restricted  Rejected

| Approved By | Verified By | Re-checked By | Checked By |
|-------------|-------------|---------------|------------|
|             |             |               |            |

Comments: \_\_\_\_\_

**Version change history**

| Rev. | Effective Date | Changed Contents | Change Reasons | Approved By |
|------|----------------|------------------|----------------|-------------|
| 01   | /              | New release      | /              | /           |

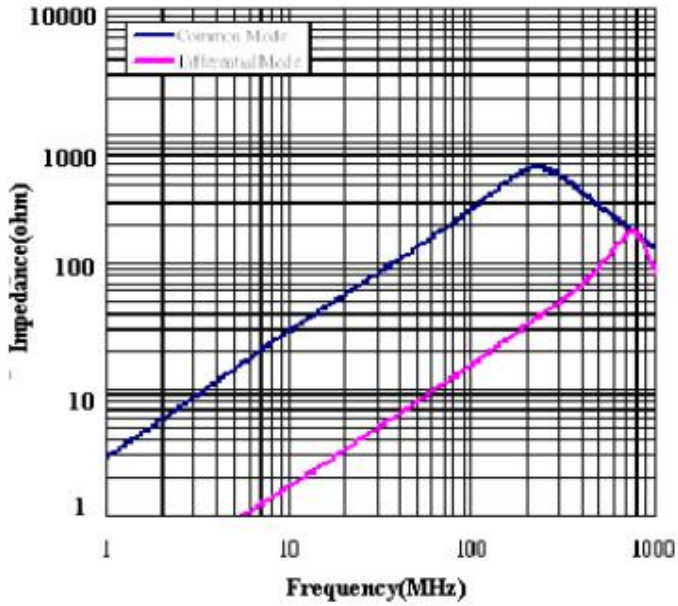
| CUSTOMER   | 0                         | CUSTOMER P/N     | -----                 | REV.         | A                      |             |
|--|---------------------------|------------------|-----------------------|--------------|------------------------|-------------|
| PRODUCT TYPE   |                           | Meled P/N        | ACW5020-SERIES        | FILE NO.     | SP-20103001            |             |
| <b>1. DIMENSION ( UNIT : mm )</b><br> |                           |                  |                       | A            | 4.8 ±0.2               |             |
|  |                           |                  |                       | B            | 5.0 ±0.2               |             |
|  |                           |                  |                       | C            | 2.5 Max                |             |
|  |                           |                  |                       | D            | 0.8 Typ                |             |
|  |                           |                  |                       | E            | 1.0 Typ                |             |
|  |                           |                  |                       | F            | 2.3 Ref                |             |
|  |                           |                  |                       | G            | 1.6 Ref                |             |
|  |                           |                  |                       | H            | 0.8 Ref                |             |
|  |                           |                  |                       | I            | 1.0 Ref                |             |
| <b>2. CIRCUIT DIAGRAM</b>  |                           | <b>3. NOTE :</b> |                       |              |                        |             |
|                                       |                           |                  |                       |              |                        |             |
| <b>4. ELECTRICAL CHARACTERISTIC</b>  |                           |                  |                       |              |                        |             |
| Meled P/N  | Common mode Impedance (Ω) | Test Frequency   | Rated Voltage (V) MAX | DCR (mΩ) MAX | Rated Current (A) Max. | IR (MΩ) MIN |
| ACW5020-101T60   | 100 (Typ)                 | 100MHz/0.5V      | 50                    | 13           | 6.0                    | 10          |
| ACW5020-251T50   | 250 (Typ)                 | 100MHz/0.5V      | 50                    | 20           | 5.0                    | 10          |
| ACW5020-421T40   | 420 (Typ)                 | 100MHz/0.5V      | 50                    | 27           | 4.0                    | 10          |
| ACW5020-501T40   | 500 (Typ)                 | 100MHz/0.5V      | 50                    | 27           | 4.0                    | 10          |
| ACW5020-102T20   | 1000 (Typ)                | 100MHz/0.5V      | 50                    | 34           | 2.0                    | 10          |
| ACW5020-142T15   | 1400 (Typ)                | 100MHz/0.5V      | 50                    | 56           | 1.5                    | 10          |
| ACW5020-152T15   | 1500 (Typ)                | 100MHz/0.5V      | 50                    | 56           | 1.5                    | 10          |

1.IDC: ΔT=40℃Typ.  
2.I.R: 50V(DC)/0.5S

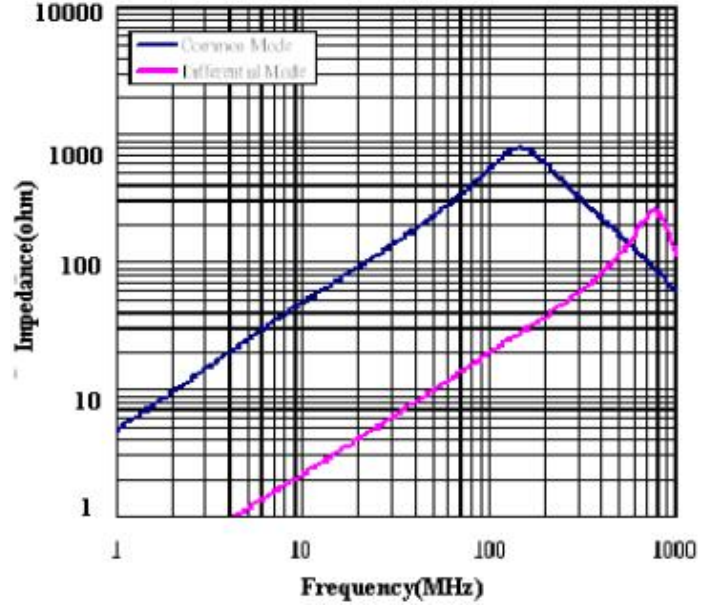
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|----------|---|--------------|----------------|----------|-------------|
| CUSTOMER | 0 | CUSTOMER P/N | -----          | REV.     | A           |
| PRODUCT  |   | Meled P/N    | ACW5020-SERIES | FILE NO. | SP-20103001 |

**5. CHARACTERISTICS(REFERENCE)**

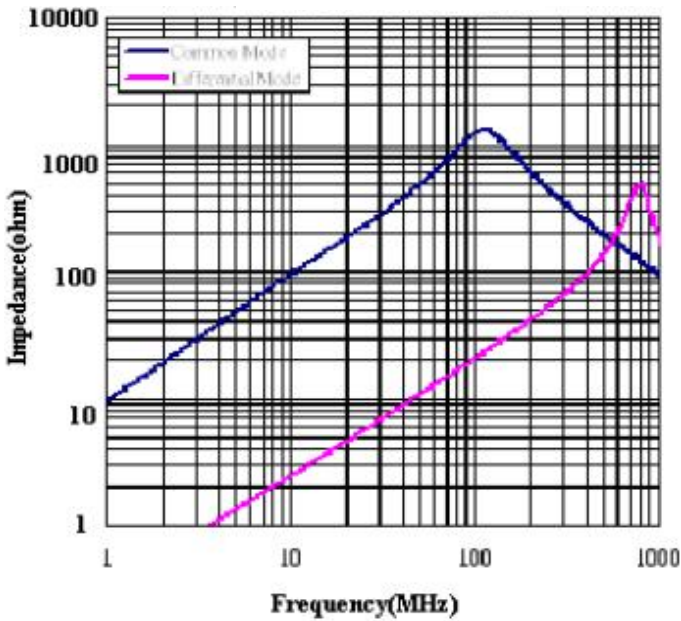
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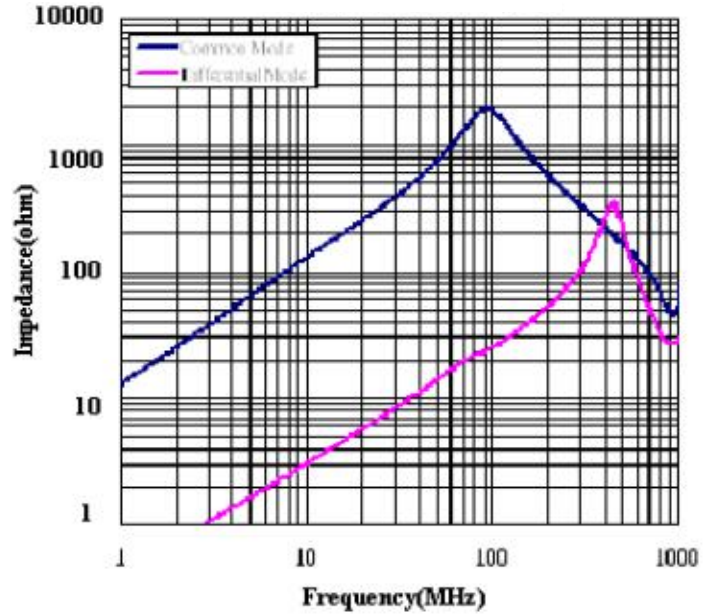
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ACW5020-102T20



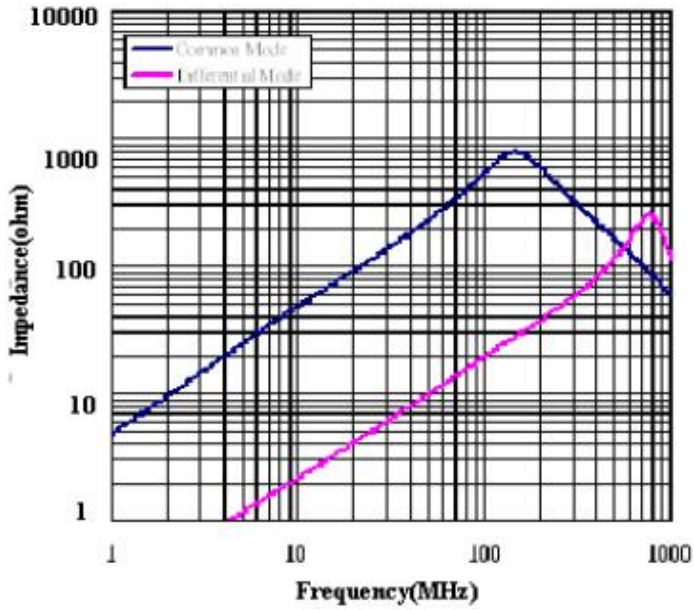
ACW5020-152T15



|          |   |              |                |          |             |
|----------|---|--------------|----------------|----------|-------------|
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| PRODUCT  |   | Meled P/N    | ACW5020-SERIES | FILE NO. | SP-20103001 |

**5. CHARACTERISTICS(REFERENCE)**

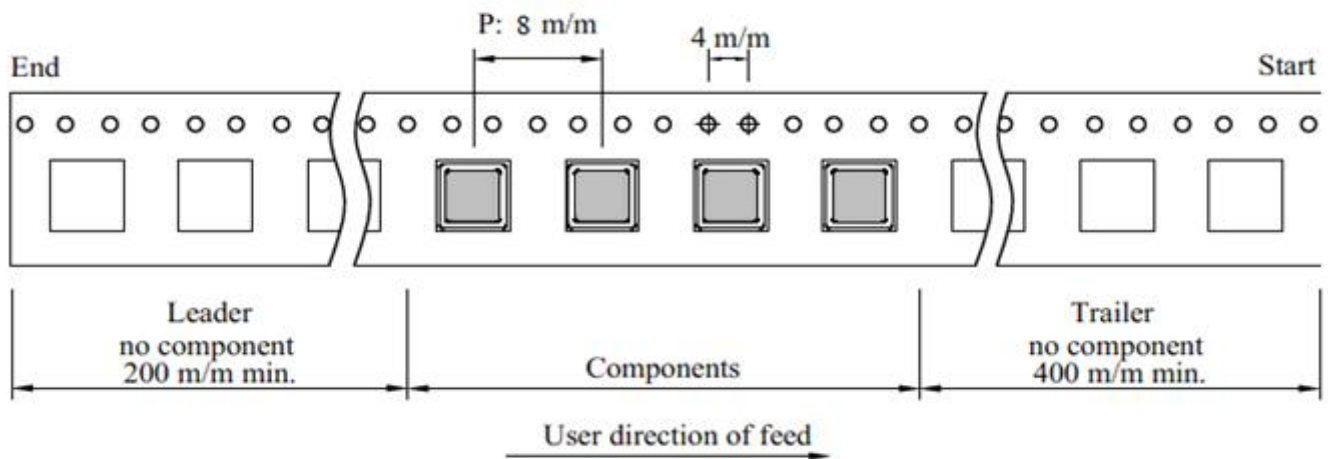
ACW5020-421T40



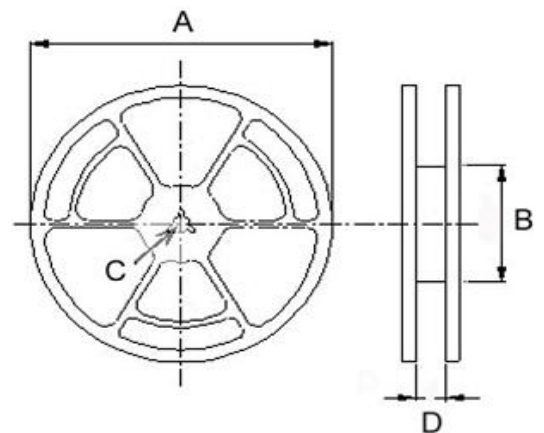
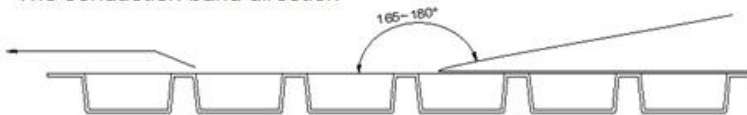
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|----------|---|--------------|----------------|----------|-------------|
| CUSTOMER | 0 | CUSTOMER P/N | -----          | REV.     | A           |
| PRODUCT  |   | Meled P/N    | ACW5020-SERIES | FILE NO. | SP-20103001 |

**6. MATERIAL LIST**

| NO. | ITEM     | DESCRIPTION  | SUPPLIER          |
|-----|----------|--------------|-------------------|
| 1   | CORE     | FERRITE      | FENGYIN OR EQ     |
| 2   | WIRE     | P180 Grd1    | ELEKTRISOLA OR EQ |
| 3   | ADHESIVE | EPOXY RESIN  | NAGASE OR EQ      |
| 4   | SOLDER   | Sn99.3:Cu0.7 | SHENMAO OR EQ     |
| 8   |          |              |                   |

**7. TAPING SPECIFICATIONS**


Adhesive strength of cover tape is 20 to 120 gf  
The conduction band direction



| Reel Dimensions (Unit: mm) |     |    |      | Quantity |
|----------------------------|-----|----|------|----------|
| A                          | B   | C  | D    | Pcs/Reel |
| 330                        | 100 | 13 | 12.5 | 2500     |

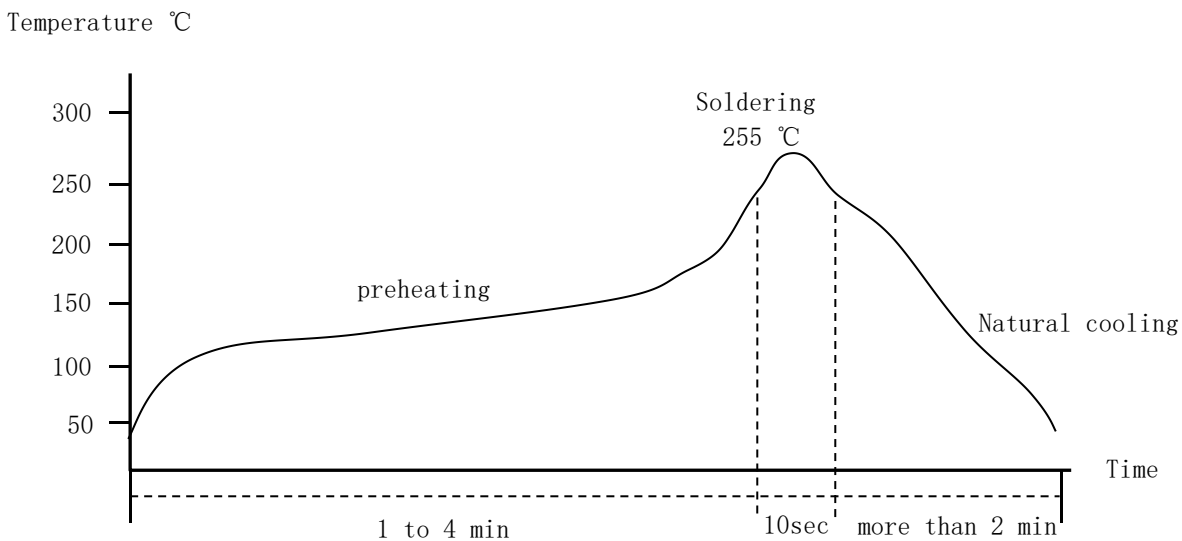
|          |   |              |                |          |             |
|----------|---|--------------|----------------|----------|-------------|
| CUSTOMER | 0 | CUSTOMER P/N | -----          | REV.     | A           |
| PRODUCT  |   | Meled P/N    | ACW5020-SERIES | FILE NO. | SP-20103001 |

### 8. RELIABILITY TESTING

|                                    |  |
|------------------------------------|--|
| Operating Temperature              | - 40 to +125 °C ( Contain Heating coil )   |
| Appearance Inspection              | No external defects by visual inspection   |
| Terminal Strength                  | After soldering , between copper plaet and terminals of coils , push in two directions of X , Y with standing 10N(1.02kg) for10+/-2 sec.<br>Terminal should not peel off. ( Refer to figure at right ) |
| Heat endurance of reflow soldering | Refer to figure  |
| Insulating resistance              | Over 100 MΩ at 100V D.C . between wire and core  |
| Dielectric Strength                | Apply at 0.5KV 3mA for 1 minute between wire and core  |
| Temperature characteristics        | Inductance coefficient ( 0~2,000 ) × 10 / °C ( - 40~ + 125 °C )  |
| Humidity characteristics           | Inductance deviation within ± 10% , after 96 hours in 90~95% relative humidity at 40 ± 2 °C and 1 hours drying under normal condition  |

A test is made under the above mentioned condition , and it is kept for 2 hours in the normal

#### IR Reflow profile



Temperature and humidity . After that , no mechanical and electrical defect should be found .

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[WTCF2012Z0M751PB](#) [PH9408.814NLT](#) [PAC6006.364NLT](#) [PAC6006.444NLT](#) [PAC6006.204NLT](#) [PH9407.204NLT](#) [PAC6006.264NLT](#)  
[PH9408.105NLT](#) [PH9408.494NLT](#) [PAC6006.104NLT](#)