

# 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

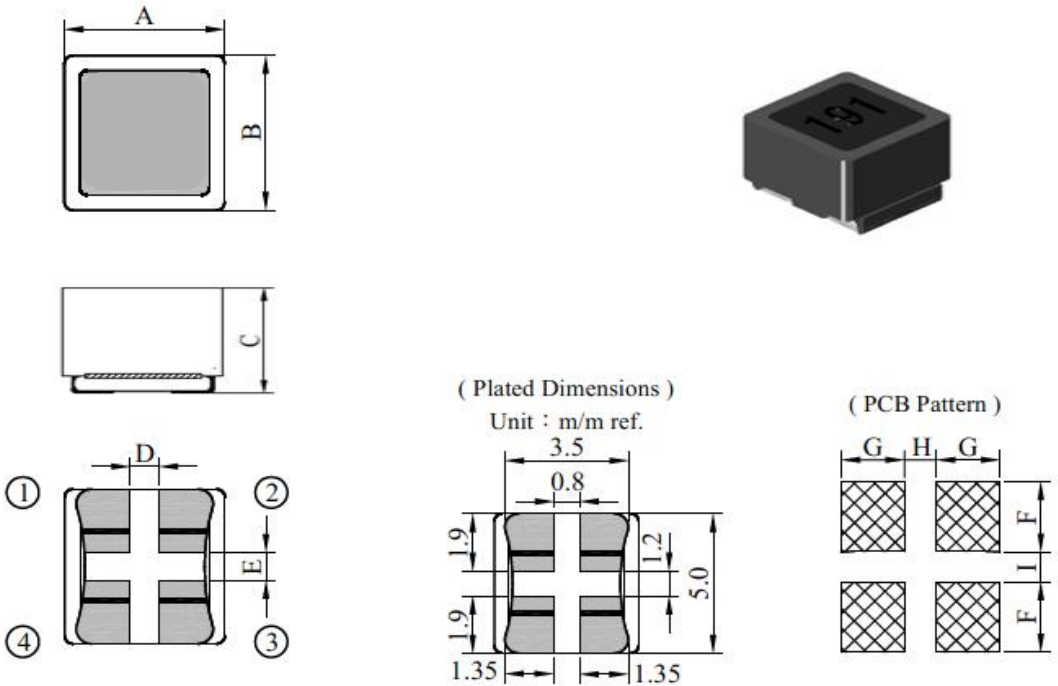
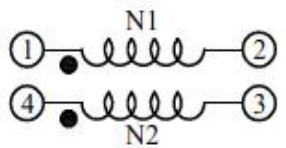
Approved By	Verified By	Re-checked By	Checked By

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

**Version change history**

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

## Wire Wound Type Common Mode Filter

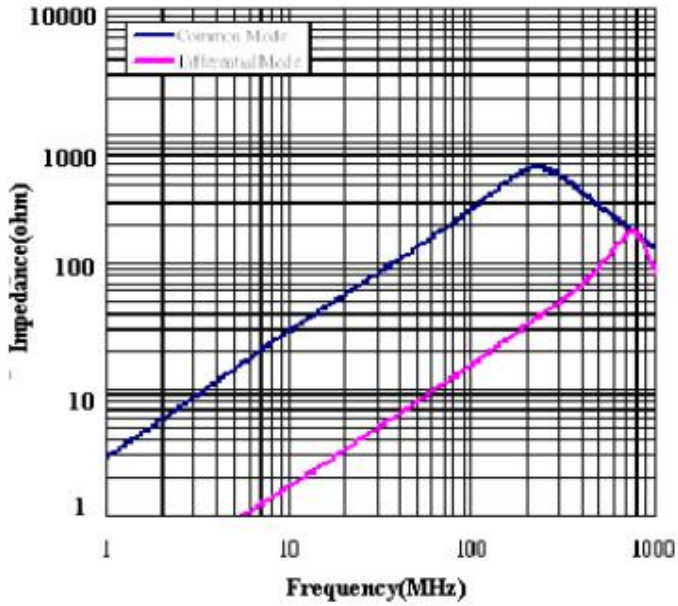
CUSTOMER	0	CUSTOMER P/N	-----	REV.	A																																																								
PRODUCT TYPE		Meled P/N	ACW5020-SERIES	FILE NO.	SP-20103001																																																								
<b>1. DIMENSION ( UNIT : mm )</b>  <p>( Plated Dimensions ) Unit : m/m ref. 3.5 0.8 1.9 1.9 1.35 1.35 5.0 1.2</p> <p>( PCB Pattern ) G H G F F</p>				A	4.8 ±0.2																																																								
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<b>4. ELECTRICAL CHARACTERISTIC</b> <table border="1"> <thead> <tr> <th>Meled P/N</th> <th>Common mode Impedance (Ω)</th> <th>Test Frequency</th> <th>Rated Voltage (V) MAX</th> <th>DCR (mΩ) MAX</th> <th>Rated Current (A) Max.</th> <th>IR (MΩ) MIN</th> </tr> </thead> <tbody> <tr> <td>ACW5020-101T60</td> <td>100 (Typ)</td> <td>100MHz/0.5V</td> <td>50</td> <td>13</td> <td>6.0</td> <td>10</td> </tr> <tr> <td>ACW5020-251T50</td> <td>250 (Typ)</td> <td>100MHz/0.5V</td> <td>50</td> <td>20</td> <td>5.0</td> <td>10</td> </tr> <tr> <td>ACW5020-421T40</td> <td>420 (Typ)</td> <td>100MHz/0.5V</td> <td>50</td> <td>27</td> <td>4.0</td> <td>10</td> </tr> <tr> <td>ACW5020-501T40</td> <td>500 (Typ)</td> <td>100MHz/0.5V</td> <td>50</td> <td>27</td> <td>4.0</td> <td>10</td> </tr> <tr> <td>ACW5020-102T20</td> <td>1000 (Typ)</td> <td>100MHz/0.5V</td> <td>50</td> <td>34</td> <td>2.0</td> <td>10</td> </tr> <tr> <td>ACW5020-142T15</td> <td>1400 (Typ)</td> <td>100MHz/0.5V</td> <td>50</td> <td>56</td> <td>1.5</td> <td>10</td> </tr> <tr> <td>ACW5020-152T15</td> <td>1500 (Typ)</td> <td>100MHz/0.5V</td> <td>50</td> <td>56</td> <td>1.5</td> <td>10</td> </tr> </tbody> </table>						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
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1.IDC: ΔT=40℃Typ.  
2.I.R: 50V(DC)/0.5S

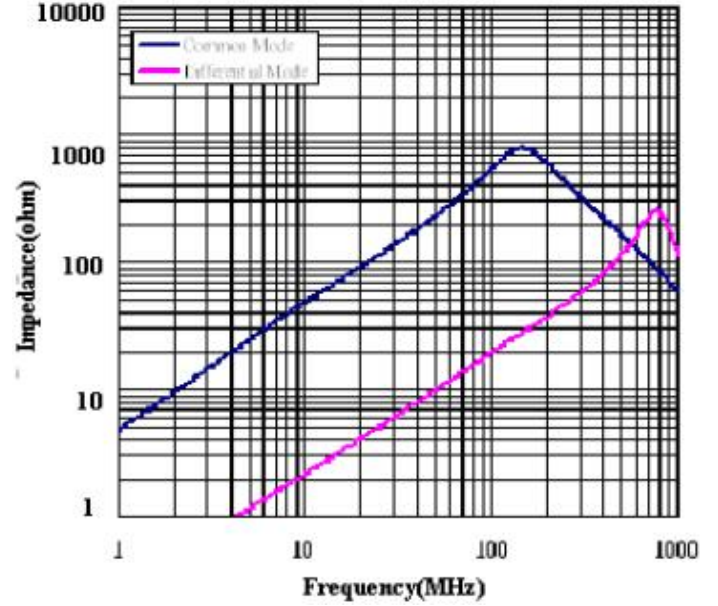
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PRODUCT		Meled P/N	ACW5020-SERIES	FILE NO.	SP-20103001

**5. CHARACTERISTICS(REFERENCE)**

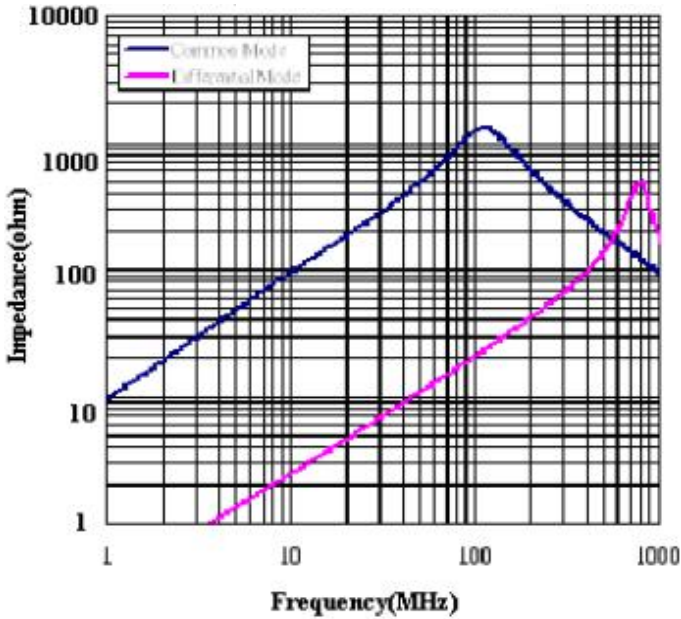
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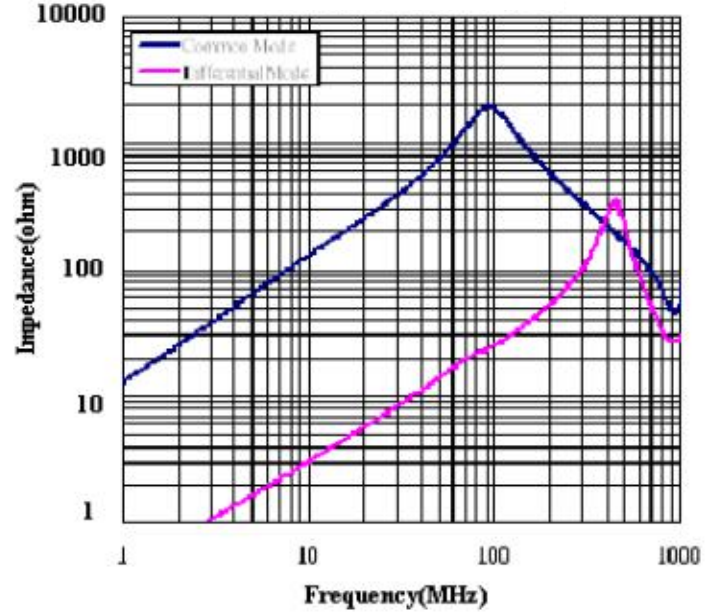
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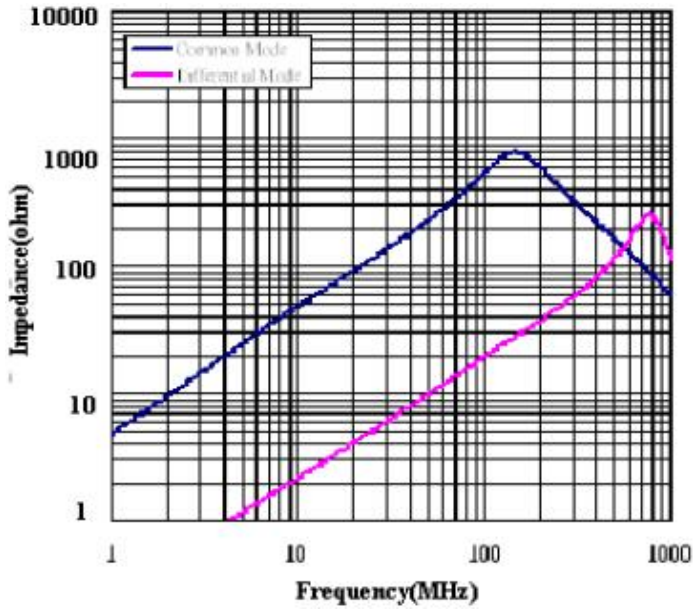
ACW5020-152T15



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

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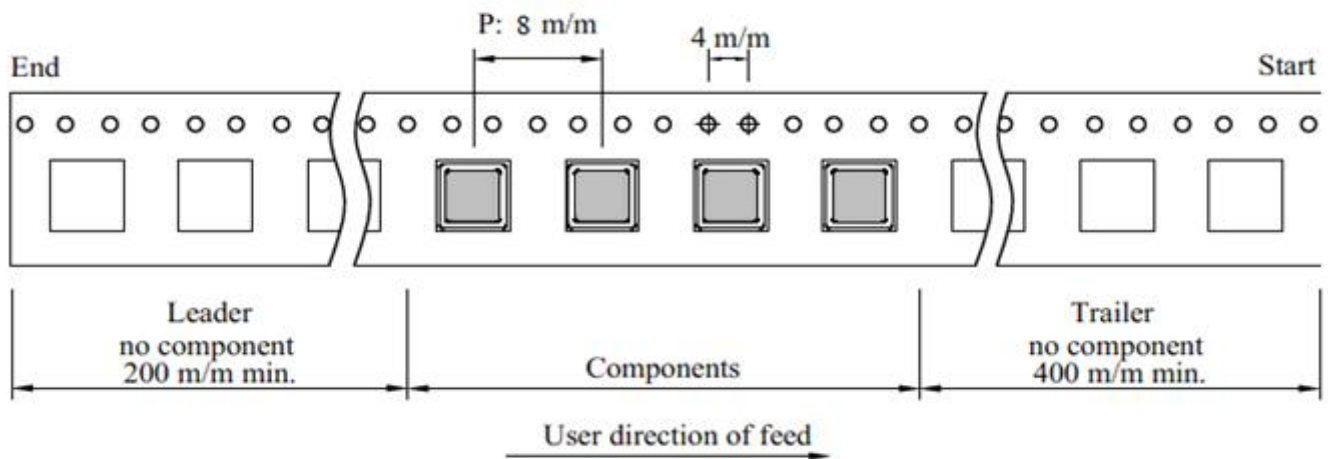
ACW5020-421T40



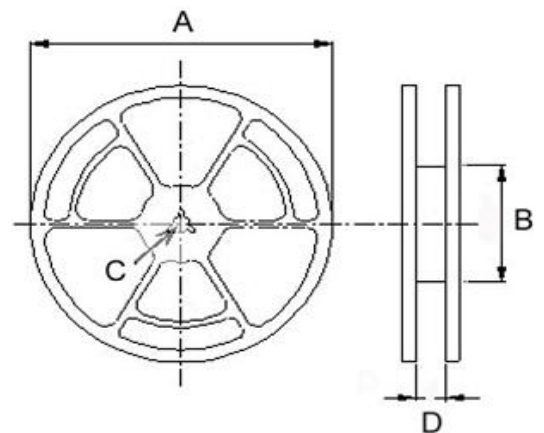
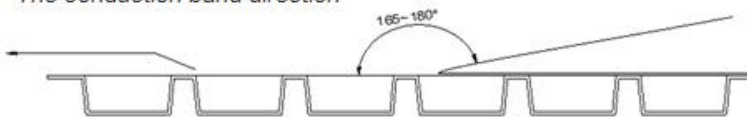
CUSTOMER	0	CUSTOMER P/N	-----	REV.	A
PRODUCT		Meled P/N	ACW5020-SERIES	FILE NO.	SP-20103001

**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

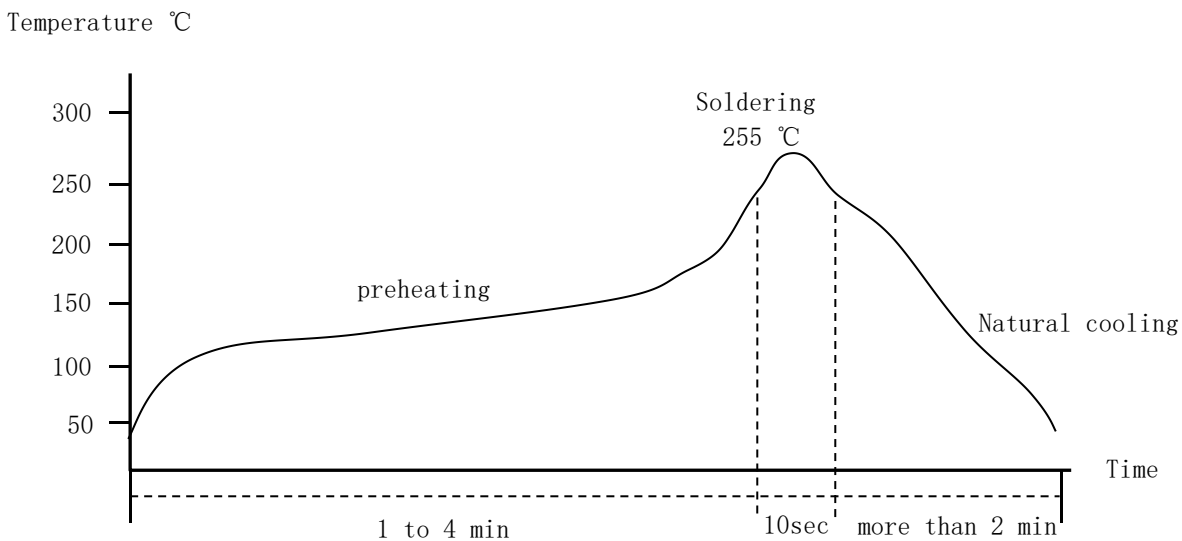
CUSTOMER	0	CUSTOMER P/N	-----	REV.	A
PRODUCT		Meled P/N	ACW5020-SERIES	FILE NO.	SP-20103001

### 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. 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](#)