SPECIFICATIONS

Customer：

Customer P/N: **ACW-□Series**

Drawing No：

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

Meled P/N： **ACW-□ Series/參照**

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:

Meled Electronics Co., Ltd.

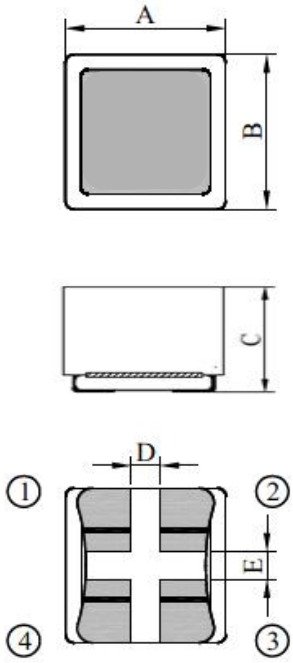
www.meledinc.com

Version change history

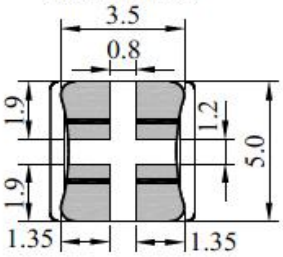
Rev.	Effective Date	Changed Contents	Change Reasons	Approved By
01	/	New release	/	/

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

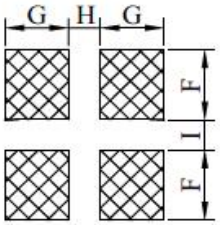
1. DIMENSION （UNIT：mm）



(Plated Dimensions)
Unit：m/m ref.

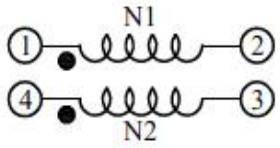


(PCB Pattern)



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

2. CIRCUIT DIAGRAM



3. NOTE：

4. ELECTRICAL CHARACTERISTIC

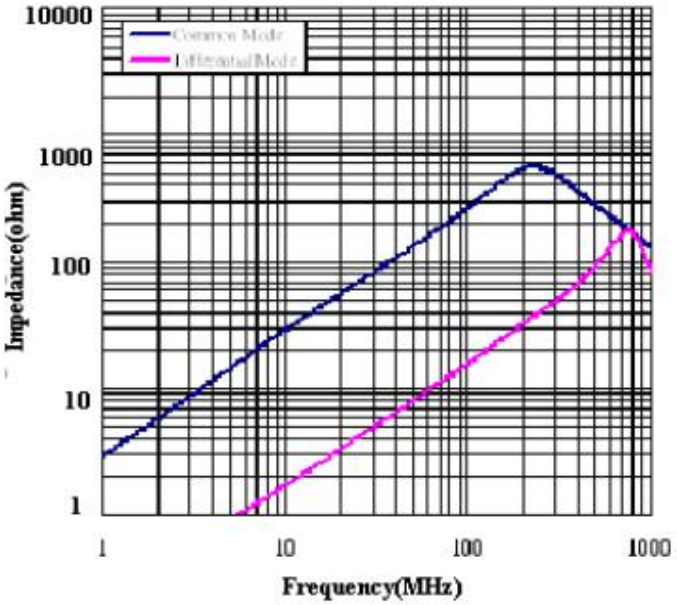
Meled P/N	Common mode Impedance (Ω)	Test Frequency	Rated Voltage (V) MAX	DCR (mΩ) MAX	Rated Current (A) Max.	IR （MΩ） MIN
ACW5020-101T60	100 (Typ)	100MHz/0.5V	50	13	6.0	10
ACW5020-251T50	250 (Typ)	100MHz/0.5V	50	20	5.0	10
ACW5020-421T40	420 (Typ)	100MHz/0.5V	50	27	4.0	10
ACW5020-501T40	500 (Typ)	100MHz/0.5V	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

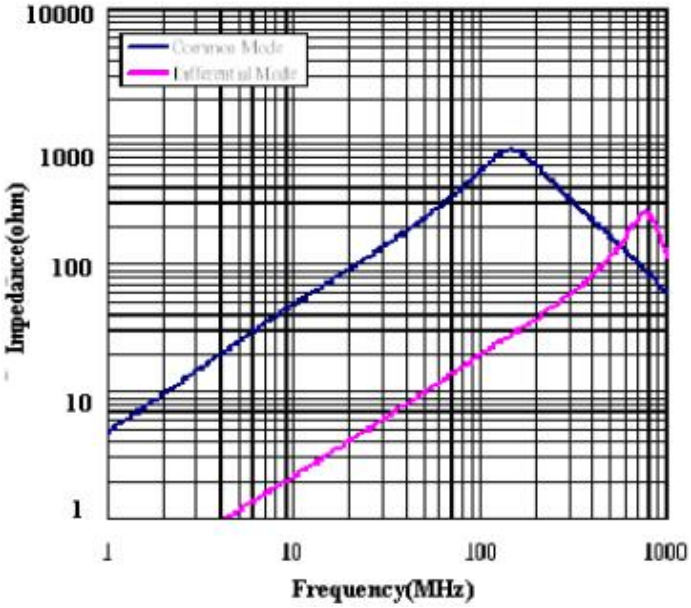
CUSTOMER	0	CUSTOMER P/N	- - - - -	REV.	A
PRODUCT		Meled P/N	ACW5020-SERIES	FILE NO.	SP-20103001

5. CHARACTERISTICS(REFERENCE)

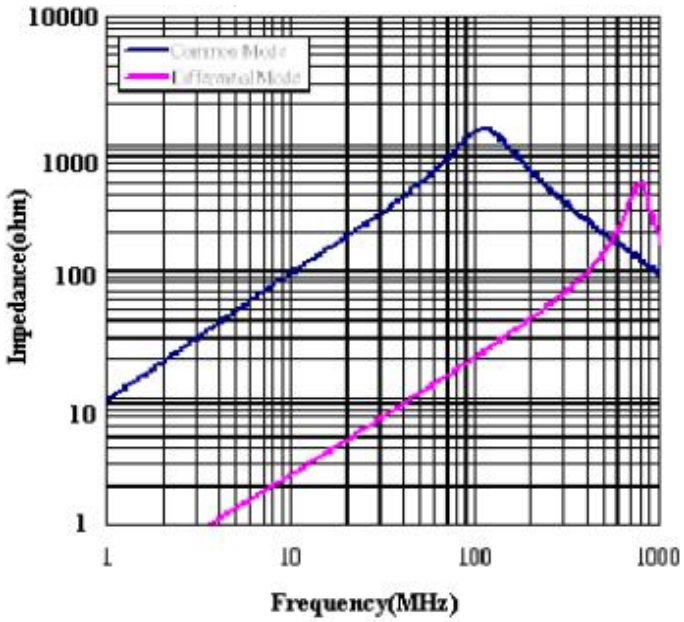
ACW5020-251T50



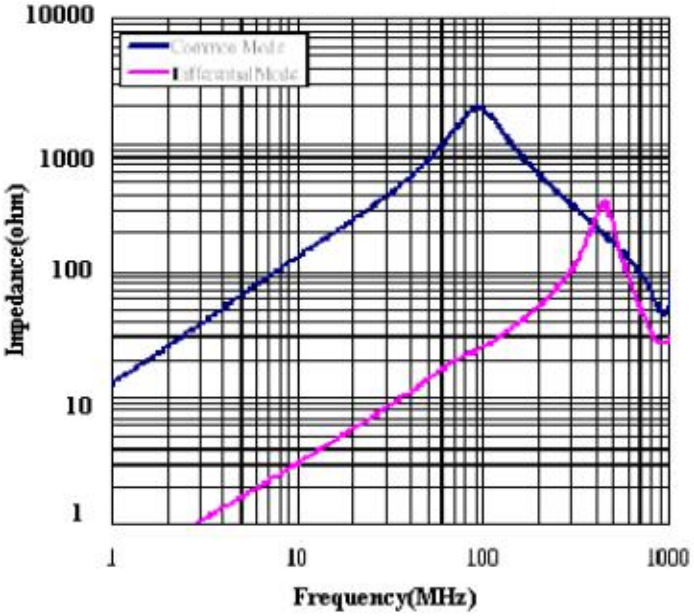
ACW5020-501T40



ACW5020-102T20



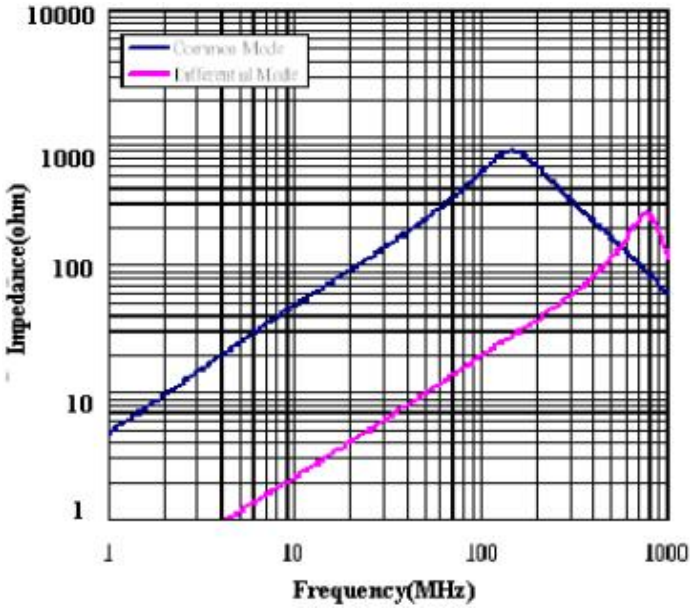
ACW5020-152T15



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

5. CHARACTERISTICS(REFERENCE)

ACW5020-421T40

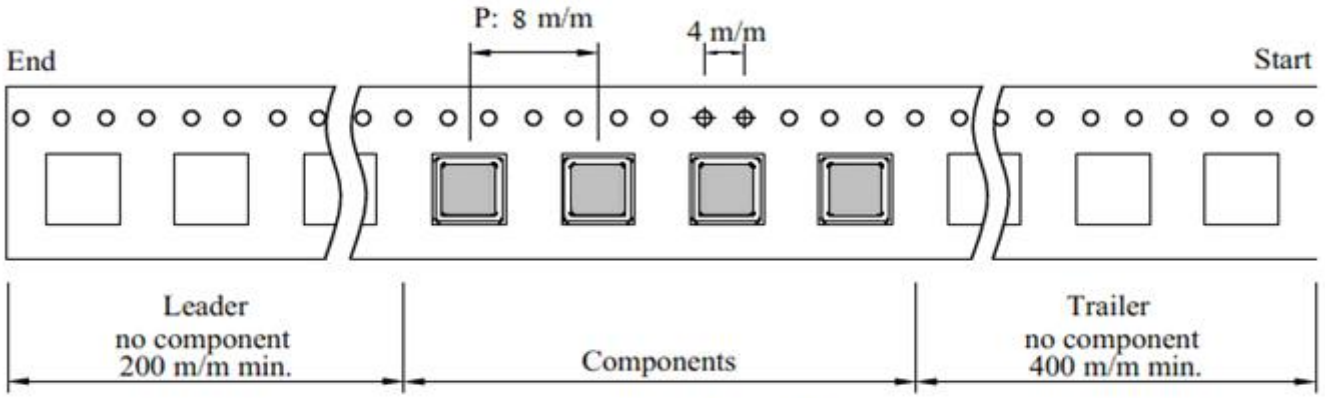


CUSTOMER	0	CUSTOMER P/N	- - - - -	REV.	A
PRODUCT		Meled P/N	ACW5020-SERIES	FILE NO.	SP-20103001

6. MATERIAL LIST

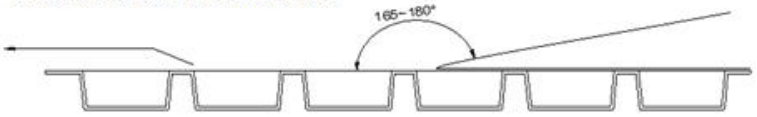
NO.	ITEM	DESCRIPTION	SUPPLIER
1	CORE	FERRITE	FENGYIN OR EQ
2	WIRE	P180 Grd1	ELEKTRISOLA OR EQ
3	ADHESIVE	EPOXY RESIN	NAGASE OR EQ
4	SOLDER	Sn99.3:Cu0.7	SHENMAO OR EQ
8			

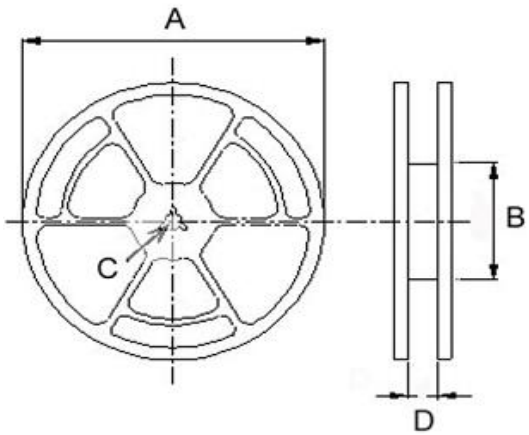
7. TAPING SPECFICATIONS



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

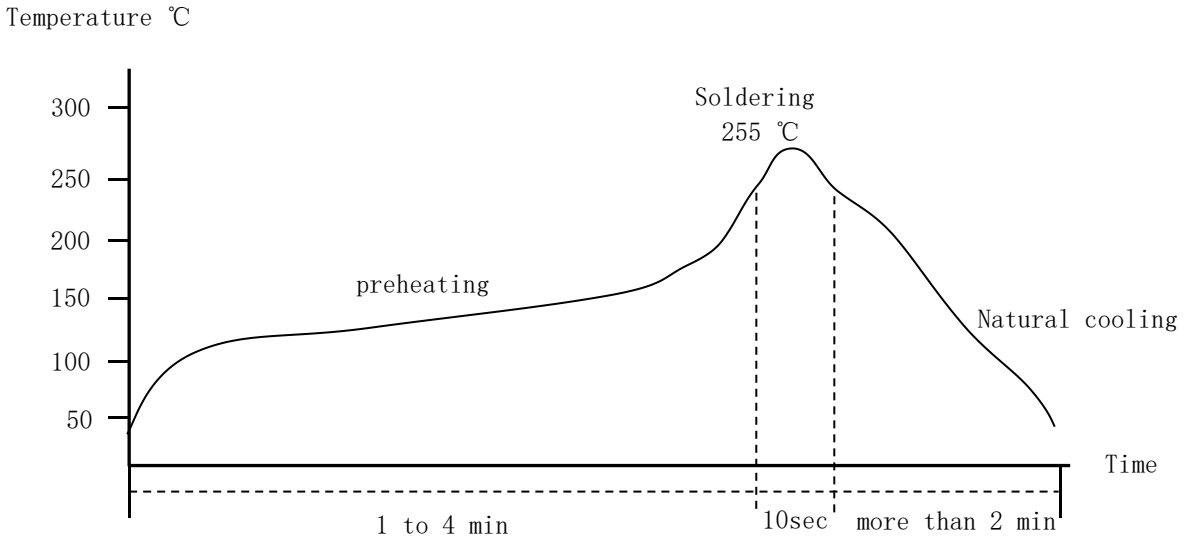
CUSTOMER	0	CUSTOMER P/N	- - - - -	REV.	A
PRODUCT		Meled P/N	ACW5020-SERIES	FILE NO.	SP-20103001

8. RELIABILITY TESTING

Operating Temperature	- 40 to +125 ℃ (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 / ℃(- 40~ + 125 ℃)
Humidity characteristics	Inductance deviation within ± 10% , after 96 hours in 90~95% relative humidity at 40 ± 2 ℃ 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 .