**Customer:** 

# **SPECIFICATIONS**

Customer P/N:			ACW-  Se	ries		
Drawing No :						
Quantity:	0	Pcs.	Date :	201	17/09/06	
Meled P/N:		A	CW- ☐ Serie	es/參照		
			CIFICATIO	N		
COMPONEN	т	AC	CEPTED BY.			
ENGINEER						
ELECTRICAL	L					
ENGINEER						
MECHANICA						
ENGINEER APPROVED						
REJECTED						
For Customer approve Qualification Status:	<b>al Only</b> □ Fu	ıı 🗆	Restricted	☐ Rejected		
Approved By		rified By	Re-ched		Checked By	
Comments:						
ominicino.						

Meled Electronics Co., Ltd.

#### Version change history

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

CUSTOMER	0	CUS	TOMER P/N			R	EV.	Α
PRODUCT TYPE		M	eled P/N	ACW5020-SI	ERIES	FILI	E NO.	SP-20103001
1 DIMENSI	ON (UNIT: mm	)					A 4	l.8 ±0.2
A	——I	/					В 5	5.0 ±0.2
	<b>3</b> 1						C 2	2.5 Max
				- 25			D C	).8 Тур
							E 1	.0 Тур
	<u> </u>						F 2	2.3 Ref
							G 1	.6 Ref
	5.3						Н	).8 Ref
<b>T</b>		(P	lated Dimensions )				1 1	.0 Ref
21.8			Unit: m/m ref.	(PC	B Pattern )			
① ( )			0.8	<del>-</del> G	H G	_		
		6:		$\neg$ $\otimes$		<u>-</u>		
	ш	7		0.00		#		
(4) L	$\supset$ $\stackrel{\top}{\Im}$	6:1				<u></u>		
O	•	1.35	1.35					
2. CIRCUIT D	IAGRAM	3.	NOTE:				I I	
0-ui 0-ui	1 11—2 11—3							
N	12							
4. ELECTRICA	L CHARACTERI	STIC						
	Common n		Test	Rated Voltage	DCR	Ra	ated Curre	
Meled P/N	Impedan (Ω)	ce	Frequency	(V)	(mΩ) MAX		(A) Max.	(MΩ) MIN
ACW5020 404T		2)	100MHz/0.5\	MAX / 50	13		6.0	10
ACW5020-101T			100MHz/0.5\		20		5.0	10
ACW5020-251T ACW5020-421T			100MHz/0.5\		27		4.0	10
			100MHz/0.5\		27		4.0	10
ACW5020-501T						+		
ACW5020-102T	20 1000 (Ty	P)	100MHz/0.5\	/ 50	34		2.0	10

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

ACW5020-142T15

ACW5020-152T15

1400 (Typ)

1500 (Typ)

100MHz/0.5V

100MHz/0.5V

50

50

56

56

1.5

1.5

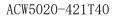
10

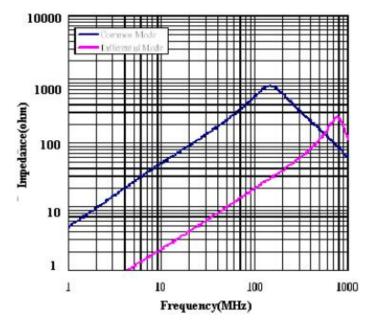
10

	0	0110701455 5/11			Α
CUSTOMER	0	CUSTOMER P/N		REV.	^
PRODUCT		Meled P/N	ACW5020-SERIES	FILE NO.	SP-20103001
5. CHARAC	TERISTICS(REF	ERENCE)			
10000	ACW5020-2	51T50	10000	ACW5020-501T	40
	ommon Mode (fizzanial Mode		Common Mode  Enforms at Mode		
⊋ 1000			2 1000		
Impedance(ohm)			Impedance(ohm)		
100			) 100 Per 100	4	
10			10	- AND THE SECOND	
1 🗀			1		
1	10	1000	1 10	10	0001
1	10 Frequency(N	MHz) 1000 1000	1 10 F	10 Trequency(MHz)	0 1000
1					0 1000
10000		MHz)	I		
10000	Frequency(N	MHz)	I	requency(MHz)	
	Frequency(N	MHz)	I	ACW5020-152TI	15
1000	Frequency(N	MHz)	10000  Coeynce Mode  Inflection Node	ACW5020-152TI	15
1000	ACW5020-	MHz)	10000  Coeynce Mode  Inflection Node	ACW5020-152TI	15
1000	ACW5020-	MHz)	10000  Coeynce Mode  Inflection Node	ACW5020-152TI	15
1000	ACW5020-	MHz)	10000 Common Male Inflerential Mode	ACW5020-152T1	15
1000 (ohm)	ACW5020-	MHz) 102T20	10000  Coerrice Mode  Inflerential Nicole	ACW5020-152TI	15
1000	ACW5020-	MHz) 102T20	10000 1000 1000 1000 1000 100	ACW5020-152T1	15
1000 (ohm)	ACW5020-	MHz) 102T20	10000 Coermon Medic Information Medic Informatio	ACW5020-152T1	15
1000 (ohm)	ACW5020-	102T20 102T20 100 1000	10000 Correce Medic Inflectation	ACW5020-152TI	15
1000 [ohm]	ACW5020—	102T20 102T20 100 1000	10000 Correce Medic Inflectation	ACW5020-152TI	15
1000 Tubedance(ohm)	ACW5020-	102T20 102T20 100 1000	10000 Correce Medic Inflectation	ACW5020-152TI	15

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

# **5.** CHARACTERISTICS(REFERENCE)



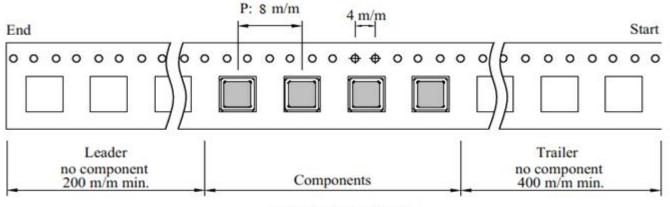


CUSTOMER	0	CUSTOMER P/N		REV.	А
PRODUCT		Meled P/N	ACW5020-SERIES	FILE NO.	SP-20103001

### 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			

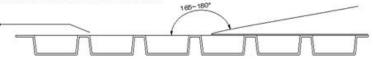
#### 7. TAPING SPECFICATIONS



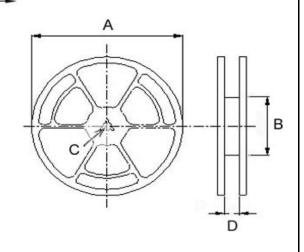
#### User direction of feed

Adhesive strength of cover tape is 20 to 120 gf

The conduction band direction



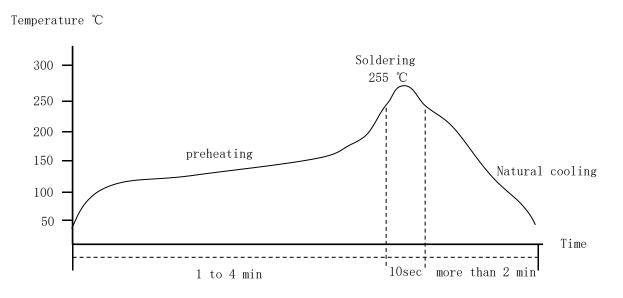
Reel	Quantity			
Α	В	С	Pcs/Reel	
330	100	13	12.5	2500



CUSTOMER	0	CUSTOMER P/N		REV.	А		
PRODUCT		Meled P/N	ACW5020-SERIES	FILE NO.	SP-20103001		
8. RELIABIL	8. RELIABILITY TESTING						
Operating Tempe	erature	- 40 to +125 ℃ ( Co	ntain Heating coil )				
Appearance Insp	ection	No external defects	by visual inspection				
Terminal Strengtl	า	After soldering , bet	ween copper plaet and tern	ninals			
		of coils , push in two directions of X , Y with					
		standing 10N(1.02kg) for10+/-2 sec.					
		Terminal should no	ot peel off. (Refer to figur	e at right )			
Heat endurance	of reflow	Refer to figure					
soldering							
Insulating resista	nce	Over 100 MΩ at 100	OV D.C . between wire and	core			
Dielectric Strengt	electric Strength Apply at 0.5KV 3mA for 1 minute between wire and core						
Temperature cha	emperature characteristics Inductance coefficient ( $0\sim2,000$ ) × 10 / $^{\circ}$ C( - $40\sim$ + 125 $^{\circ}$ C )						
Humidity characte	eristics	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 .