

产品承认书

SPECIFICATION FOR APPROVAL

CUSTOMER:

CONDITIONAL APPROVED

REJECTED

CUSTOMER P/N:						
CND-TEK P/N.:		CND-WCM0805M801-2				
DESCRIPTION:	Wire Wound Type Common Mode Filter					
REF NO:	QTC-002					
REV/NO:	A/0					
DATE:	2018/08/16					
ATTACHMENT:						
■ SPECIFICATION						
■ SAMPLE Q'TY OF SA	AMPLES	PCS				
	V	CUSTOMER'S SIGNATURE	REMARK			
FULL APPROVED						



CND-WCM0805M801-2

Wire Wound Type Common Mode Filter



V1.0.3 AUG 16,2018



Shenzhen CND-TEK Electronics Co.,Ltd

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变更履历表

变更日期	变更内容	版次	备注
2018-8-16	新制作	A0	

1. FEATURES:

- 1.1 High common mode impedance at high frequency cause excellent noise suppression performance.
- 1.2 CND-WCM0805M801-2 series realizes small size and low profile. 2.0*1.2*1.2 mm.
- 1.3 100% Lead(Pb) & Halogen-Free and RoHS compliant.
- 1.4 Operating Temperature range: -40~+125°C (Including self temperature rise)
- 1.5 Storage temperature range: -40~+125℃ (on board)

2. ELECTRICAL SPECIFICATIONS @25°C

- 2.1 Common mode Impedance (Ω): 800±25%
- 2.2 Test Frequency (MHz):100
- 2.3 DCResistance (Ω) max: 0.88
- 2.4 Rated Current (mA)max: 300
- 2.5 Rated Volt.(Vdc)max: 50
- 2.6 Withstand Volt. (Vdc) max:125
- 2.7 IR (Ω) min: 10M

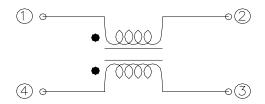
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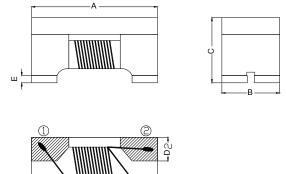
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REV.: A0
PAGE: 1 OF 7

3. SCHEMATICS:



4. DIMENSIONS & MARKING:



Series	A(mm)	B(mm)	C(mm)	D1(mm)	D2(mm)	E(mm)
2012F2SF	2.0±0.2	1.2±0.2	1.2±0.2	0.50±0.1	0.51±0.1	0.15±0.1

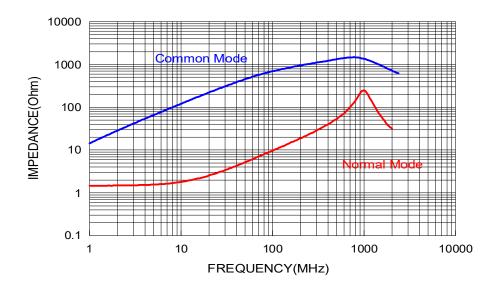
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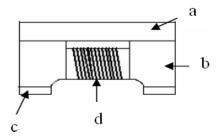
REV.: A1 PAGE: 2 OF 7

5. Typical Impedance v.s. Frequency Curve:



6. Materials:

No.	Description	Specification
a.	Upper Plate	Ferrite
b.	Core	Ferrite Core
С	Termination	Tin (Pb Free)
d	Wire	Enameled Copper Wire



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REV.: A0 PAGE: 3 OF 7

7 Reliability and Test Condition:

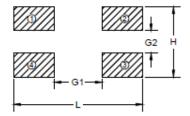
Item	Performan	ce		Test Cond	dition	
Operating temperature	-40~+125 °C (Inclu	ding self -				
	temperature rise)					
Storage temperature	-40~+125°C (on board)					
Electrical Performance	Test					
Z(common mode)	Refer to standard	d electrical	Agilent-42	291A+ Agilent -16197A		
DCR	characteristics list.		Agilent-43	338B		
I.R.			Agilent43	39		
Temperature Rise Test	Rated Current < 1A \triangle	Г 20°∁Мах	1.Applied	the allowed DC currer	nt.	
	Rated Current ≧ 1A /	∆ T 40°C Max	2.Temper	ature measured by dig	ital surface thermometer	
Reliability Test						
Life Test			times.(IP J-STD-02 Temperat Applied co Duration: Measured	0DClassification Reflo ure: 125±2℃ urrent: rated current 1000±12hrs I at room temperature:	w Profiles) after placing for 24±2 hrs	
Load Humidity			times.(IP J-STD-02 Humidity: Temperat Duration:	0DClassification Reflo 85±2 % R.H, ure∶ 85°C±2°C 1000hrs Min. with 100	w Profiles	
Moisture Resistance	Appearance: No damage. Inductance: within±10% of initial value Impedance: within±15% of initial value RDC: within ±15% of initial value and shall not exceed the specification value		times.(IP J-STD-02 1. Baked after placi 2. Raise t keep 3 ho 3. Raise t keep 3 ho 2.5hrs,kee 4. Keep a frequency room tem	itioning: Run through IR reflow for 2 PC/JEDEC 20DClassification Reflow Profiles I at50°C for 25hrs, measured at room temperature cing for 4 hrs. temperature to 65±2°C 90-100%RH in 2.5hrs, and ours, cool down to 25°C in 2.5hrs. temperature to 65±2°C 90-100%RH in 2.5hrs, and ours, cool down to 25°C in eep at 25°C for 2 hrs then keep at -10°C for 3 hrs at 25°C 80-100%RH for 15min and vibrate at the cy of 10 to 55 Hz to 10 Hz, measure at apperature after placing for 1~2 hrs.		
Thermal shock			Preconditioning: Run through IR reflow for 2 times.(IPC/JEDECJ-STD-020DClassification Reflow Profiles Condition for 1 cycle Step1: $-40\pm2^{\circ}$ C 30 ± 5 min Step2: $25\pm2^{\circ}$ C ≤ 0.5 min Step3: $125\pm2^{\circ}$ C 30 ± 5 min Number of cycles: 500 Measured at room temperature after placing for 24 ± 2 hrs			
Vibration			Equipmer Total Amp		-10Hz for 20 minutes tes, 12 cycles each of 3	
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$7\,{\mbox{\tiny \sim}}\,$ Reliability and Test Condition:

Item			Performance				Test Con	ditio	n		
				Γ.	Туре	Peak	Normal	٧	Vave	Velocit	ty
						value	duration	n fo	orm	change	e
						(g 's)	(D) (ms)		(Vi)ft/s	sec
	1	Арреаі	rance: No damage.		SMD	50	11	ŀ	Half-si	11.3	
Shock	1	Inductance: within±10% of						r	ne		
	i	nitial v	alue		Lead	50	11	H	Half-si	11.3	
			ance: within±15% of	L					ne		
		-				each	direction	along	g 3 perp	endic	ular
	¹	nitial v	alue		xes.	4 -	-l ED	4 !	_44_	£ 41	
	F	RDC:	within ±15% of initial				d on a FR ions: >=0				n
	\	value a	and shall not		0805:40			003.4	100X	1.211111	11
Bending		exceed	I the specification value		ending		.0111111				
209			'	ı	_	-	2mm):1.2	mm			
				ı		•	2mm):0.8n				
					uration o	•	,				
				Р	reheat:	150°C,6	0sec.。				
	ı	More tl	han 95% of the terminal	ı			Ag3% C	ı0.5%	6		
Soderability		electro	de should		emperat						
							e: Rosin. 9	.5%。			
	"	be covered with solder.			ip time:						
					•	•	ly cover the	ne ter	minatio	n	
					umber of				Τ_		
Resistance					Tempera	ture	Time(s)			erature	
to Soldering				l	(°C)				and	immersi emersi	
									rate	CITICIS	1011
Heat					260 ±5(sc	older	10 ±1		25mm	/s	±6
					temp)				mm/s		
				Р	recondit	ioning:	Run throu	gh IR	reflow	for 2	
		۸۵۵۵۵	ranaa : Na damaga	tir	mes.(IP	C/JEDI	EC J-STD	-0201	OClassi	ficatior	n
			rance : No damage.		Reflow P						
		nducta	ance: within±10% of			-	ent moun	ted o	n a PCI	3 with	the
	i	nitial v	alue		evice to		(00				
	ı	mpeda	ance: within±15% of				orce (>080				
	l _i	nitial v	alue		•	,	kg , <=086 .5kg)to the				
			within ±15% of initial	ı	f a devic			Siuc	7		
 Terminal				ı		-	e applied	for 6	0 +1 se	conds	
	\	value a	and shall not		Iso the f		o applica	101 0		oonao	
Strength	€	exceed	I the specification value	sl	hall be a	pplied	gradually	as			
							ock to the		ponent	being	
				te	ested.						
						DUT	14				
						X		\geq	, wide		
						<i>!//</i>)		×.	1		
					sub	trate	press	><	thickr	ness	
							press		shear	force	
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	l			1			1				
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8. Soldering and Mounting: 8.1 Recommended PC Board Pattern

L(mm)	2.60
H(mm)	1.40
G1(mm)	1.25
G2(mm)	0.45



PC board should be designed so that products can prevent damage from mechanical stress when warping the board. Products shall be positioned in the sideway direction to against the mechanical stress to prevent failure.

8.2 Soldering

Mildly activated rosin fluxes are preferred. CND-TEK terminations are suitable for all wave and re-flow soldering systems. If hand soldering cannot be avoided, the preferred technique is the utilization of hot air soldering tools.

8-2.1 Lead Free Solder re-flow:

Recommended temperature profiles for re-flow soldering in Figure 1.

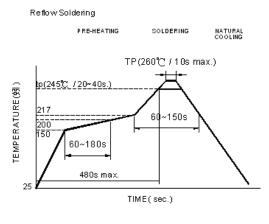
8-2.2 Soldering Iron(Figure 2):

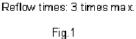
Products attachment with a soldering iron is discouraged due to the inherent process control limitations. In the event that a soldering iron must be employed the following precautions are recommended.

Preheat circuit and products to 150°C ⋅Never contact the ceramic with the iron tip ⋅Use a 20 watt soldering iron

with tip diameter of 1.0mm

355 tip temperature (max) 1.0mm tip diameter (max) Limit soldering time to 4~5 sec.





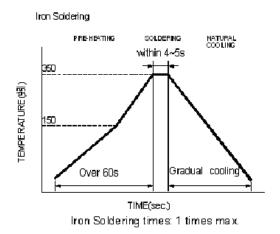


Fig.2

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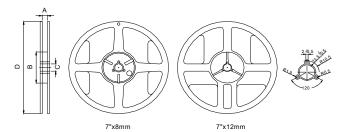


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REV.: A0 PAGE: 6 OF 7

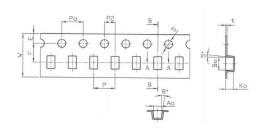
9 Packaging Information:

9.1 Reel Dimension



Type	A(mm)	B(mm)	C(mm)	D(mm)
7"x8mm	9.0±0.5	60±2	13.5±0.5	178±2

9.2 Tape Dimension / 8mm

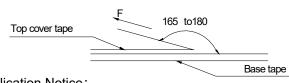


Series	W(mm)	P(mm)	E(mm)	F(mm)	P2(mm)	D(mm)	P0(mm)	A0(mm)	B0(mm)	K0(mm)	t(mm)
WCM0805M801-2	8.00±0.10	4.00±0.10	1.75±0.10	3.50±0.05	2.00±0.05	1.50+0.10/-0.00	4.00±0.10	1.50±0.10	2.35±0.10	1.45±0.10	0.28±0.05

9.3 Packaging Quantity

Chip size	Chip/Reel	Inner Box	Middle Box	Carton
CND-WCM0805M801-2	2000	10000	50000	100000

9.4 Tearing Off Force



The force for tearing off cover tape is 15 to 80 grams in the arrow direction under the following conditions.

Room Temp.	Room Humidity	Room atm	Tearing Speed
(℃)	(%)	(hPa)	mm/min
5~35	45~85	860~1060	300

Application Notice:

· Storage Conditions

To maintain the solderability of terminal electrodes:

- 1. CND-TEK products meet IPC/JEDEC J-STD-020D standard-MSL, level 1.
- ${\it 3.}$. Remmended products should be used within 12 months form the time of delivery.
- 4. The packaging material should be kept where no chlorine or sulfur exists in the air.
- Transportation
 - 1. Products should be handled with care to avoid damage or contamination from perspiration and skin oils.
 - 2. The use of tweezers or vacuum pick up is strongly recommended for individual components.
 - ${\it 3. } \ {\it Bulk handling should ensure that abrasion and mechanical shock are minimized.}$

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