

承認書

SPECIFICATION FOR APPROVAL

CUSTOMER: _____

DESCRIPTION: _____ WIRE WOUND CHIP INDUCTOR _____

DDY PART NO: _____ YLFW0603-10K(f) _____

CUSTOMERMODELNO: _____

DRAWING		
MADE	CHECKED	APPROVED
张丽霞	周紫鑫	胡晓武
DATE:	2020年6月1日	

CUSTOMER APPROVE



深圳市英拓坤科技有限公司

SHEN ZHEN YINTK CTRONICS CO., LTD

電話：0755-88376225

傳真：0755-83226377

郵編：318000



深圳市英拓坤科技有限公司

SHENZHEN YINTK CTRONICS CO., LTD

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CATALOG

Resume	P2
Shape & Dimension	P3
Characteristic	P4
General specification	P4
Soldering Conditions	P5
Package Information	P6
Reliabilty Test	P7-8

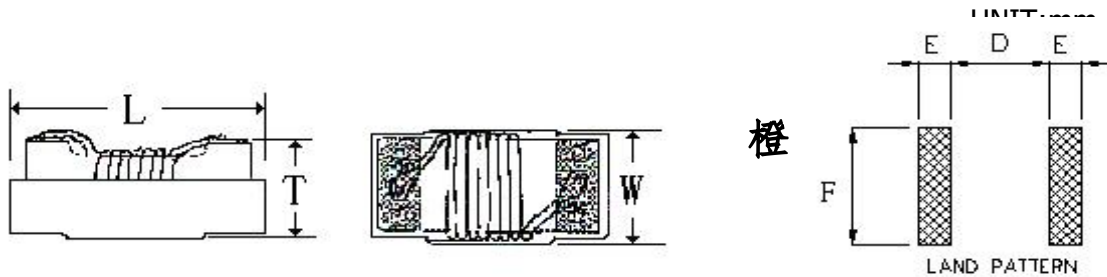


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1.SHAPE & DIMENSION

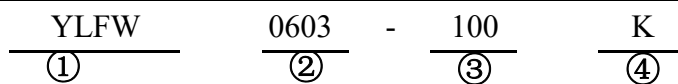


CODE	L	W	T	E	F	D	
DIMENSION	1.80MAX	1.25MAX	1.20MAX	0.64Typ.	1.02Typ.	0.64Typ.	

2. ELECTRICAL CHARACTERISTICS @25°C

ITEM	SPEC. RANGE	TEST CONDITION	TEST INSTRUMENTS
L (μH)	1.00±10%	7.9MHz	HP4286A
Q(品质系数)	16 MIN	7.9MHz	
DCR (Ω)	0.41 MAX		502BC
I _{rms} (mA)	900 MAX		TH2829A
SRF (MHz)	390 MIN		7H1778A

3. PART NUMBERING SYSTEM



- ① Product symbol系列代号:
- ② Dimensions 尺寸: Length长 (L) ×Width宽 (W)
- ③ Inductance电感量: 47: 4.7μH; 100: 10μH; R68: 680nH;
- ④ Tolerance允许偏差: J±5%, K±10%,M±20%
- ⑤ Lead free products无铅产品

4.GENERAL SPECIFICATION

- a. Storage temp.: -40°C ~ +85°C, R.H.: 30% ~ 70%, Operating temp.: -40°C ~ +85°C.
- b. Moisture sensitivity level (MSL) 2 (1 year floor life at <30°C/85% relative humidity).
- c. Failures in time(FIT)/Mean Time Between Failures(MTBF) 38 per billion hours/26,315,789 hours, calculated per Telcordia SR-332.

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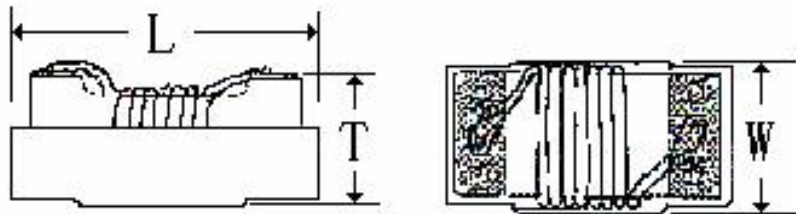
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5. TEST DATA FOR SAMPLES

TEST ITEM	L	Q(品质系数)	DCR	L	W	T	
	(μ H)	(min)	(Ω)	(mm)	(mm)	(mm)	
CON.	7.9MHz	7.9MHz	At 25°C	1.80MAX	1.25MAX	1.20MAX	
SPEC.	1.00 \pm 10%	12 MIN	0.50 MAX				
1	1.03	15.0	0.28	1.71	1.17	1.13	
2	1.00	16.0	0.26	1.69	1.16	1.12	
3	0.97	16.0	0.26	1.72	1.17	1.11	
4	0.98	15.0	0.27	1.70	1.16	1.12	
5	0.97	16.0	0.28	1.69	1.17	1.11	
6	1.01	15.0	0.25	1.72	1.17	1.12	
7	1.02	16.0	0.28	1.71	1.17	1.11	
8	1.02	16.0	0.27	1.72	1.16	1.12	
9	0.99	16.0	0.26	1.69	1.16	1.11	
10	1.01	16.0	0.28	1.71	1.15	1.12	
X	1.00	15.70	0.27	1.71	1.16	1.12	
R	0.06	1.00	0.01	0.03	0.02	0.02	

图示:



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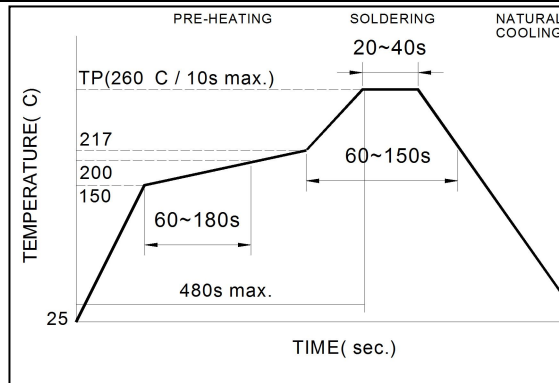
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6. SOLDERING CONDITIONS

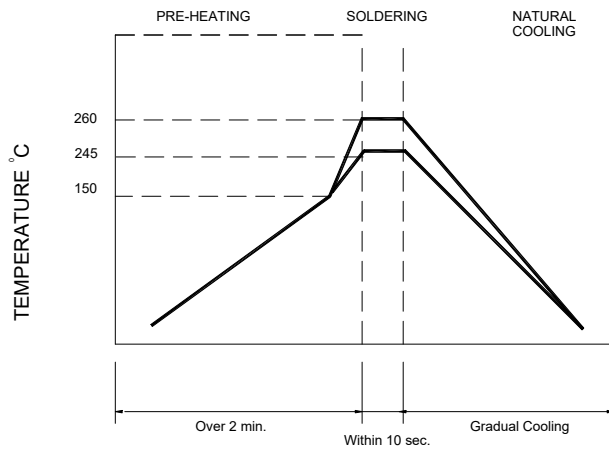
**Figure 1.
Re-flow
Soldering (Lead
Free)**



Note:

- Preheat circuit and products to 150°C
- 260°C tip temperature (max)

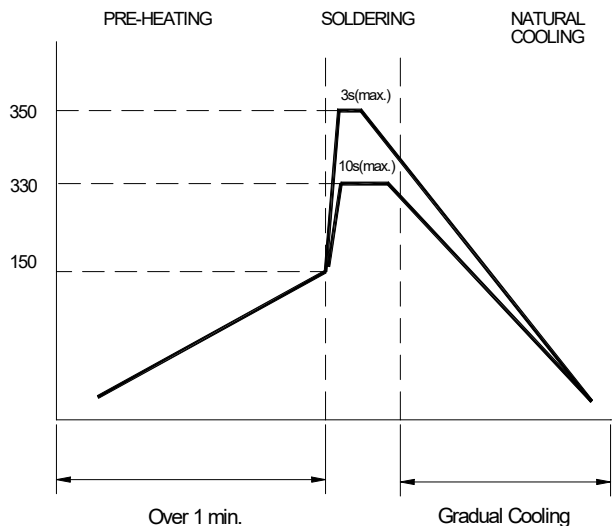
**Figure 2.
Wave Soldering**



Note:

- Never contact the ceramic with the iron tip
- 1.0mm tip diameter (max)

**Figure 3.
Hand Soldering**



Note:

- Use a 20 watt soldering iron with tip diameter of 1.0mm
- Limit soldering time to 3 sec.

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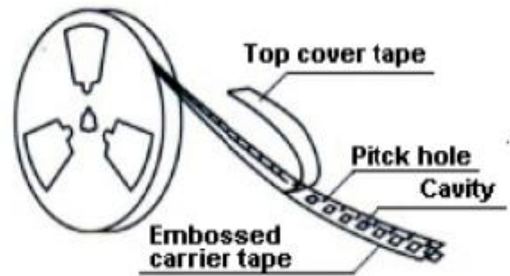
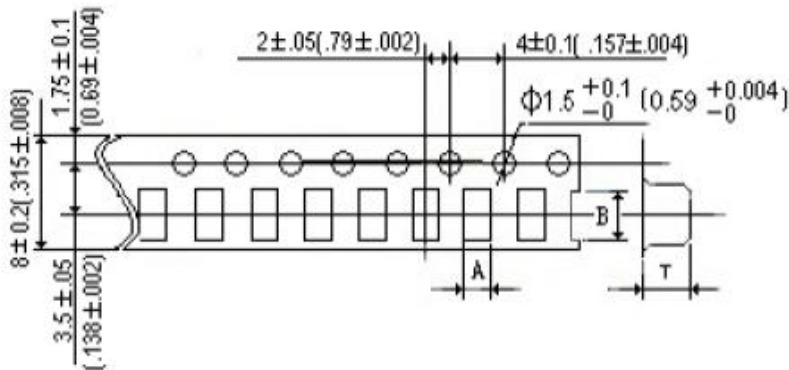


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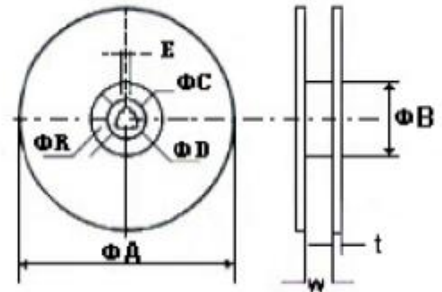
7. PACKAGING(unit: mm)

Tape

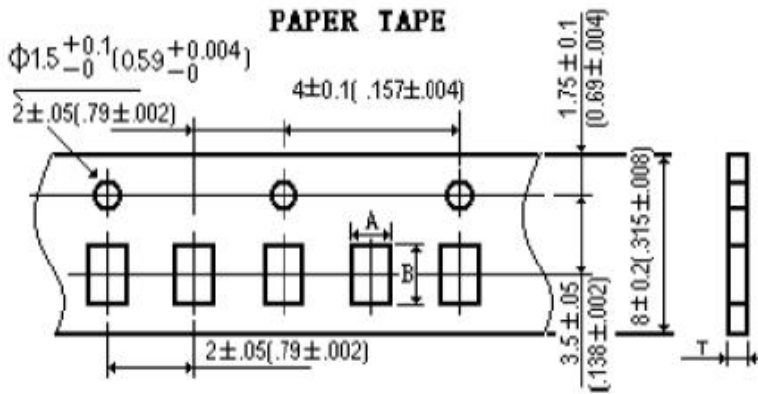
POLYSTYRENE TAPE



Reel Dimensions



PAPER TAPE



		A	B	T
纸带	0402	0.74	1.23	0.60
	0603	1.15	1.83	0.95
胶带	0805	1.85	2.40	1.45
	1008	2.73	2.90	2.34
	1210	2.96	3.60	2.40

unit	ΦA	ΦB	ΦC	ΦD	E	W	t	R
mm	178	60	13	21	2	10	2	1
	330	75	13	23	2	12	2	1

包装数量(PACKAGING QUANTITY)

规格	0402	0603	0805	1008	1210	
数量(pcs)	10000	4000	3000	2000	2000	

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8. 1 RELIABILITY TEST

TEST ITEM	SPECIFICATION	TEST CONDITION
Rating current	According to product specifications	Current sources:33010D
Inductance	According to product specifications	Test Frequency:0.252~250MHz Test Equipment:HP4291A、HP4286A、HP4287A、HP4284A Test Fixture:16193Aor16334A
Q	According to product specifications	Test Frequency:0.252~1500MHz Test Equipment:HP4291A、HP4286A、HP4287A、Test Fixture:16193Aor16334A
RDC	According to product specifications	Test Equipment:HP4263B
SRF	According to product specifications	Test Equipment:HP4291A Test Fixture:16193A
Solderability	The metalized area must have more then 90%of solder coverage	Soldering Temp:230±5°C Dipping time:5±1S
Resistance to soldering heat	No evidence of mechanical damage The mealized arer must have more then 75%of solder coverage Inductance change,less than±5% Q change less than±10%	Soldering Temp:260±5°C Dipping time:10±1S
Thermal Shock	No evidence of mechanical damage, Inductance change less than±5%, Q change less than±10%	A cycle contain:Step1:-40°C , 30Min Step 2:85°C , 30Min Cycle Times:10

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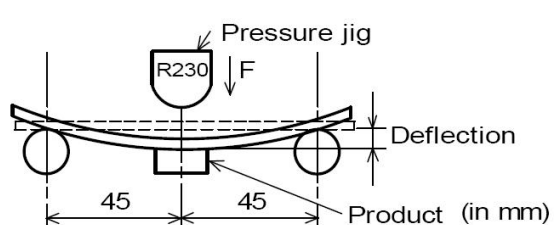


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8.2 RELIABILITY TEST

TEST ITEM	SPECIFICATION	TEST CONDITION
High Temperature Storage	No evidence of mechanical damage, Inductance change less than $\pm 5\%$, Q change less than $\pm 10\%$	Test Temperature: $125\pm 2^{\circ}\text{C}$ (Ceramic core) $85\pm 2^{\circ}\text{C}$ (Ferrite core) Test Time: 96 ± 2 Hours
Low Temperature Storage	No evidence of mechanical damage, Inductance change less than $\pm 5\%$, Q change less than $\pm 10\%$	Test Temperature: $-40\pm 2^{\circ}\text{C}$ Test Time: 96 ± 2 Hours
Moisture Resistance	No evidence of mechanical damage, Inductance change less than $\pm 5\%$, Q change less than $\pm 10\%$	Test Temperature: $50\pm 2^{\circ}\text{C}$ Test Time:100Hours relative humidity:90~95%
Vibration	No evidence of mechanical damage, Inductance change less than $\pm 5\%$, Q change less than $\pm 10\%$	Amplitude:1.5mm X、Y、Z each direction for 1Hour and 45min Frequency range:10~55~10Hz(min)
Component Adhesion	No evidence of mechanical damage No evidence of peel off or broken Keep continuity of Winding	Force:2Kg Test Time: 5 ± 1 sec
Resistance to bend	No evidence of mechanical damage	Camber:20mm Test Board:Glass-Epoxy board Thickness:8mm 
Life	No evidence of mechanical damage, Inductance change less than $\pm 5\%$, Q change less than $\pm 10\%$	Test Temperature: $85\pm 2^{\circ}\text{C}$ Test Time:1000Hours with rating current

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