

承認書

SPECIFICATION FOR APPROVAL

CUSTOMER: _____

DESCRIPTION: _____ WIRE WOUND CHIP INDUCTOR _____

PART NO: _____ KPS0805LD2R2KST _____

CUSTOMERMODELNO: _____

DRAWING		
MADE	CHECKED	APPROVED
罗海玲	曾凡强	谢海龙
DATE:	2019年11月12日	

CUSTOMER APPROVE

赣州研创光电科技有限公司

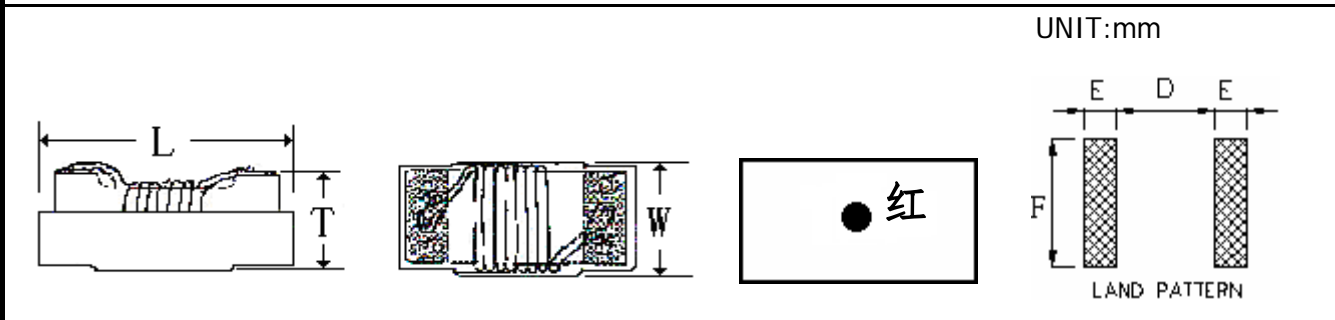
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CUSTOMER NO:		DATE:	2019年11月12日

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1.SHAPE & DIMENSION



CODE	L	W	T	E	F	D	
DIMENSION	2.29MAX	1.73MAX	1.52MAX	1.02Typ.	1.78Typ.	0.76Typ.	

2. ELECTRICAL CHARACTERISTICS @25°C

ITEM	SPEC. RANGE	TEST CONDITION	TEST INSTRUMENTS
L (μH)	2.20±10%	7.9MHz/0.5V	HP4286A
Q(品质系数)	12 Typ	7.9MHz/0.5V	
DCR (Ω)	0.31 MAX		502BC
I _{rms} (mA)	740 MAX		VR116+VR7210
SRF (MHz)	80 MIN		E5071C ENA

3. PART NUMBERING SYSTEM

KPS	□□□□	□□	□R□	□	□	□
1	2	3	4	5	6	7

- 1 PRODUCT SYMBOL (产品代号)
- 2 DIMENSIONS (规格尺寸)
- 3 MATERIAL (芯片类型)
- 4 INDUCTANCE (电感量)
- 5 TOLERANCE (公差) : J±5%; K±10%; M±20%
- 6 TERMINAL (端电极材料) : S-锡端头;
- 7 PACKAGING (包装方式) : T-编带盘装; B-散装

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.

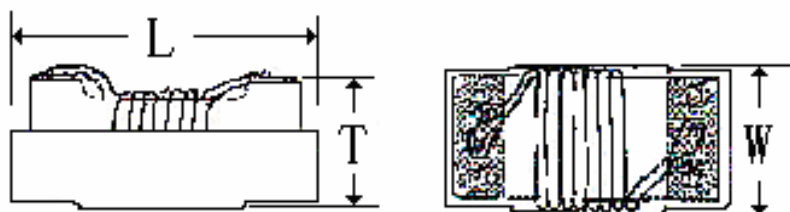
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5. TEST DATA FOR SAMPLES

TEST ITEM	L	Q(品质系数)	DCR	L	W	T	
	(μ H)	(min)	(Ω)	(mm)	(mm)	(mm)	
CON.	7.9MHz/0.5V	7.9MHz/0.5V	At 25°C	2.29MAX	1.73MAX	1.52MAX	
SPEC.	2.20 \pm 10%	12 Typ	0.31 MAX				
1	2.22	17.0	0.27	2.16	1.53	1.25	
2	2.18	17.0	0.27	2.15	1.54	1.22	
3	2.17	18.0	0.26	2.17	1.52	1.23	
4	2.20	18.0	0.25	2.16	1.51	1.25	
5	2.22	16.0	0.27	2.17	1.53	1.24	
6	2.23	16.0	0.25	2.16	1.52	1.24	
7	2.19	16.0	0.25	2.15	1.53	1.25	
8	2.19	18.0	0.25	2.17	1.53	1.26	
9	2.16	16.0	0.25	2.16	1.54	1.25	
10	2.20	16.0	0.26	2.15	1.54	1.26	
X	2.20	16.80	0.26	2.16	1.53	1.25	
R	0.07	2.00	0.02	0.02	0.03	0.04	

图示:

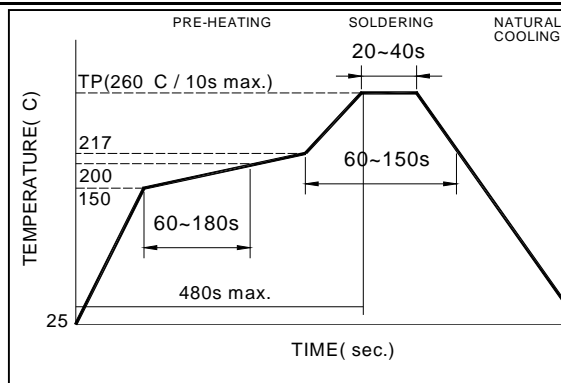


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6. SOLDERING CONDITIONS

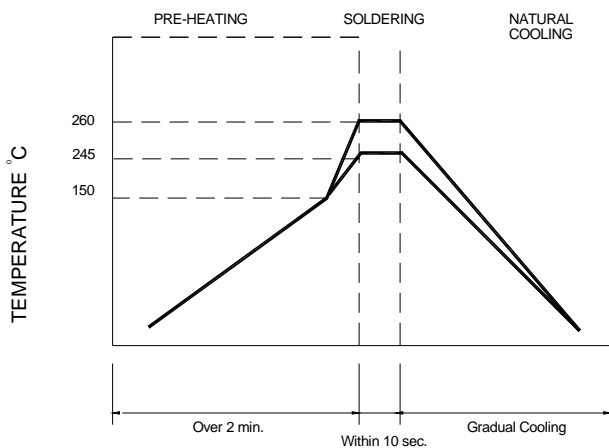
**Figure 1.
Re-flow
Soldering (Lead
Free)**



Note:

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

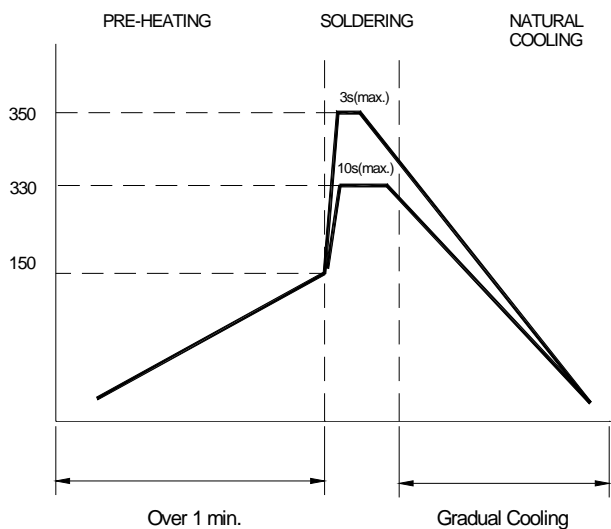
**Figure 2.
Wave Soldering**



Note :

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

**Figure 3.
Hand Soldering**



Note:

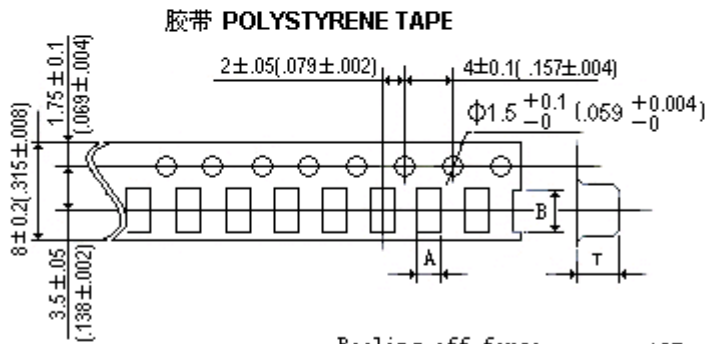
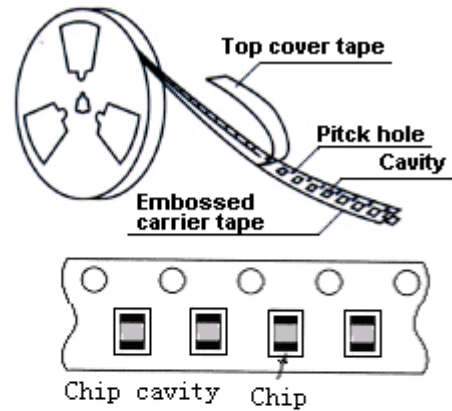
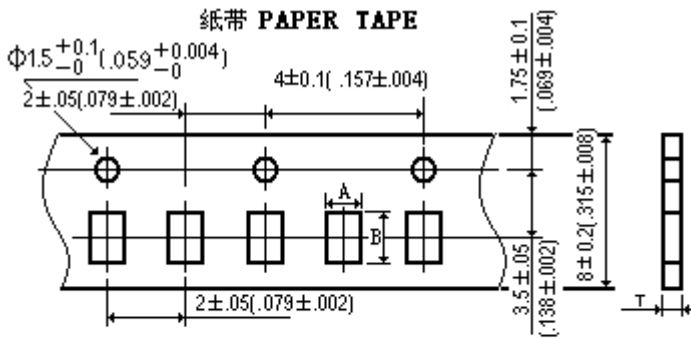
- Use a 20 watt soldering iron with tip diameter of 1.0mm
- Limit soldering time to 3 sec.

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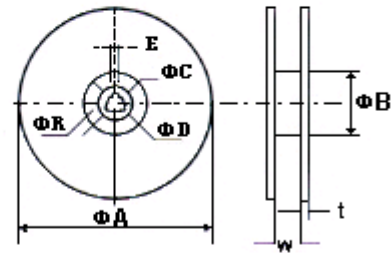
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7. PACKAGING(unit: mm)

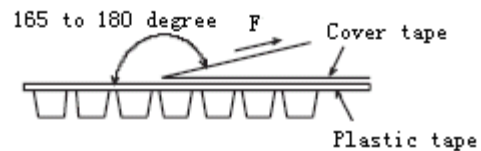
Tape



Reel Dimensions



Peeling off force
 Full strength
 0402~1210: 20g~80g
 Speed of peeling off:
 300mm/min±10%



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

Type	ΦA	ΦB	ΦC	ΦD	E	W	t	R
0402 ~ 1210	178	60	13	21	2	8.4	2	1

包装数量(PACKAGING QUANTITY)

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

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8. 1 RELIABILITY TEST

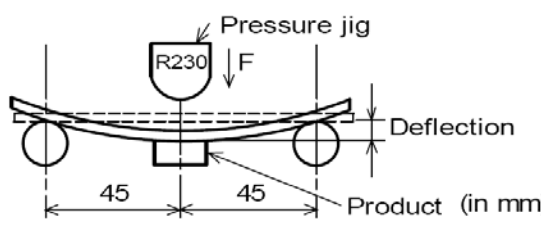
TEST ITEM	SPECIFICATION	TEST CONDITION
Rating current	According to product specifications	Current sources:33010D
Inductance	According to product specifications	Test Frequency:0.252~250MHz Test Equipment:HP4291A、HP4286A、HP4287A、HP4284A Test Fixture:16193Aor16334A
Q	According to product specifications	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℃ 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℃ 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℃, 30Min Step 2:85℃, 30Min Cycle Times:10

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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: 100 Hours 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 1 Hour 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: 1000 Hours with rating current

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