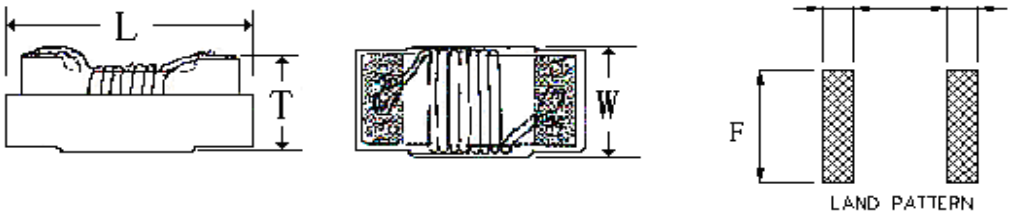
ALTERNATION HISTORY RECORDS

Date	Version	Description	Drafter	Approver
2023-08-04	A	First release	Doris Chang	

1.SHAPE & DIMENSION

Utmm



CODE		L(MAX)	W(MAX)	T(MAX)	E(Typ.)	F(Typ.)	D(Typ.)
Dimension	WCI0805	2.29	1.73	1.52	1.02	1.78	0.76

2. PART NUMBERING SYSTEM

WCI	0805	C	R56	J	S	T
1	2	3	4	5	6	7

1 PRODUCT SYMBOL

2 DIMENSIONS

3 MATERIAL

4 INDUCTANCE

5 TOLERANCE：J±5%；K±10%；M±20%

6 TERMINAL ： S-Sn

7 PACKAGING：T；Taping Reel B:Bulk

3.GENERAL SPECIFICATION

a. Rating DC current: Temperature rise(ΔT) is 40℃ approximately at Irms.

b.Operating temp.: -40℃～+85℃

c.Storage temp.: -10℃～+40℃ R.H.: 65% Max

d.Moisture sensitivity level (MSL) 2 (1 year floor life at ＜30℃/65% relative humidity)

4. Electrical Characteristics List

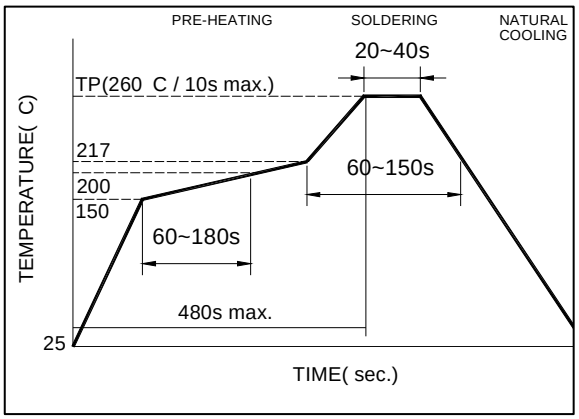
NO.	Part Number	L	Freq	Q	SRF	Rdc	Irms
		(nH)	(MHz)	Min	(MHz)Min	(Ω) Max	(mA) Max
1	WCI0805C2N2KST	2.2	250	50@1GHz	7900	0.06	800
2	WCI0805C2N7JST	2.7	250	50@1GHz	7900	0.06	800
3	WCI0805C3N0JST	3	250	40@1.5GHz	7900	0.06	800
4	WCI0805C3N3JST	3.3	250	40@1.5GHz	7900	0.08	600
5	WCI0805C3N6JST	3.6	250	20@1GHz	7900	0.2	200
6	WCI0805C3N9JST	3.9	250	20@1GHz	7900	0.2	150
7	WCI0805C4N7JST	4.7	250	35@1GHz	6200	0.08	600
8	WCI0805C5N1JST	5.1	250	50@1GHz	6200	0.08	600
9	WCI0805C5N6JST	5.6	250	65@1GHz	5900	0.08	600
10	WCI0805C6N2JST	6.2	250	65@1GHz	5900	0.08	600
11	WCI0805C6N8JST	6.8	250	50@1GHz	5600	0.11	600
12	WCI0805C7N5JST	7.5	250	50@1GHz	4800	0.14	600
13	WCI0805C8N2JST	8.2	250	50@1GHz	4400	0.12	600
14	WCI0805C9N1JST	9.1	250	60@500MHz	4300	0.1	600
15	WCI0805C10NJST	10	250	60@500MHz	4300	0.1	600
16	WCI0805C12NJST	12	250	50@500MHz	4000	0.15	600
17	WCI0805C15NJST	15	250	50@500MHz	3200	0.17	600
18	WCI0805C16NJST	16	250	50@500MHz	3200	0.17	600
19	WCI0805C18NJST	18	250	50@500MHz	3100	0.2	600
20	WCI0805C20NJST	20	250	55@500MHz	2600	0.22	500
21	WCI0805C22NJST	22	250	55@500MHz	2600	0.22	500
22	WCI0805C23NJST	23	250	50@500MHz	2400	0.22	500
23	WCI0805C24NJST	24	250	50@500MHz	2400	0.22	500
24	WCI0805C25NJST	25	250	50@500MHz	2450	0.22	500
25	WCI0805C27NJST	27	250	55@500MHz	2580	0.25	500
26	WCI0805C30NJST	30	250	55@500MHz	2400	0.25	500
27	WCI0805C33NJST	33	250	60@500MHz	2150	0.27	500
28	WCI0805C36NJST	36	250	55@500MHz	1900	0.27	500
29	WCI0805C39NJST	39	250	60@500MHz	1850	0.29	500
30	WCI0805C43NJST	43	200	60@500MHz	1800	0.34	500
31	WCI0805C47NJST	47	200	60@500MHz	1700	0.31	500
32	WCI0805C50NJST	50	200	60@500MHz	1650	0.34	500
33	WCI0805C56NJST	56	200	60@500MHz	1600	0.34	500
34	WCI0805C62NJST	62	200	60@500MHz	1450	0.36	500
35	WCI0805C64NJST	64	200	60@500MHz	1500	0.38	500
36	WCI0805C68NJST	68	200	60@500MHz	1500	0.38	500
37	WCI0805C72NJST	72	150	60@500MHz	1400	0.38	500
38	WCI0805C75NJST	75	150	60@500MHz	1400	0.4	450
39	WCI0805C78NJST	78	150	60@500MHz	1400	0.4	450
40	WCI0805C82NJST	82	150	65@500MHz	1330	0.42	400

4. Electrical Characteristics List

NO.	Part Number	L	Freq	Q	SRF	Rdc	Irms
		(nH)	(MHz)	Min	(MHz)Min	(Ω) Max	(mA) Max
41	WCI0805C91NJST	91	150	65@500MHz	1330	0.48	400
42	WCI0805CR10JST	100	150	65@500MHz	1250	0.46	400
43	WCI0805CR11JST	110	150	50@250MHz	1100	0.48	400
44	WCI0805CR12JST	120	150	50@250MHz	1100	0.51	400
45	WCI0805CR13JST	130	100	50@250MHz	920	0.56	400
46	WCI0805CR14JST	140	100	50@250MHz	920	0.56	400
47	WCI0805CR15JST	150	100	50@250MHz	920	0.56	400
48	WCI0805CR16JST	160	100	50@250MHz	920	0.6	400
49	WCI0805CR18JST	180	100	50@250MHz	920	0.64	400
50	WCI0805CR20JST	200	100	50@250MHz	860	0.68	400
51	WCI0805CR21JST	210	100	50@250MHz	820	0.7	400
52	WCI0805CR22JST	220	100	50@250MHz	820	0.7	400
53	WCI0805CR24JST	240	100	44@250MHz	770	1	350
54	WCI0805CR25JST	250	100	45@250MHz	750	1.2	350
55	WCI0805CR27JST	270	100	48@250MHz	730	1	350
56	WCI0805CR28JST	280	100	48@250MHz	550	1.35	350
57	WCI0805CR29JST	290	150	48@250MHz	450	1.4	310
58	WCI0805CR30JST	300	150	48@250MHz	450	1.4	310
59	WCI0805CR33JST	330	100	48@250MHz	650	1.4	310
60	WCI0805CR36JST	360	100	48@250MHz	630	1.45	300
61	WCI0805CR39JST	390	100	48@250MHz	600	1.5	290
62	WCI0805CR42JST	420	50	33@100MHz	425	1.7	250
63	WCI0805CR43JST	430	50	33@100MHz	425	1.7	250
64	WCI0805CR47JST	470	50	33@100MHz	375	1.76	250
65	WCI0805CR56JST	560	25	23@50MHz	330	1.9	230
66	WCI0805CR62JST	620	25	23@50MHz	320	2.2	210
67	WCI0805CR68JST	680	25	23@50MHz	310	2.2	190
68	WCI0805CR75JST	750	25	23@50MHz	310	2.3	180
69	WCI0805CR82JST	820	25	23@50MHz	310	2.35	180
70	WCI0805CR88JST	880	25	23@50MHz	310	2.35	180
71	WCI0805CR91JST	910	25	22@50MHz	250	2.45	170
72	WCI0805C1R0JST	1000	25	20@50MHz	220	2.5	170
73	WCI0805C1R2JST	1200	25	20@25MHz	180	2.9	150
74	WCI0805C1R5JST	1500	25	20@25MHz	160	3.3	150
75	WCI0805C1R6JST	1600	25	20@25MHz	140	3.4	150
76	WCI0805C1R8JST	1800	25	20@25MHz	130	3.5	120
77	WCI0805C2R2JST	2200	25	20@25MHz	100	4.5	120
78	WCI0805C2R7JST	2700	25	18@25MHz	80	4.8	100
79	WCI0805C3R3JST	3300	25	18@25MHz	50	6.8	50
80	WCI0805C4R7JST	4700	25	18@25MHz	40	7	30
Toleranc ：J±5%；K±10%；M±20%							

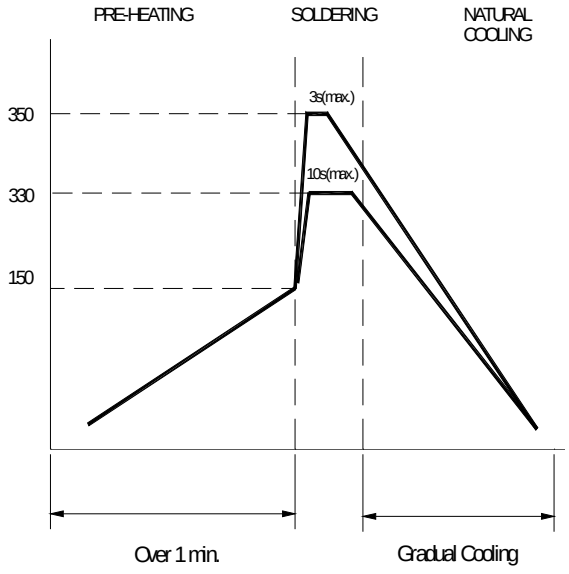
5. SOLDERING CONDITIONS

Figure 1. Re-flow Soldering (Lead Free)



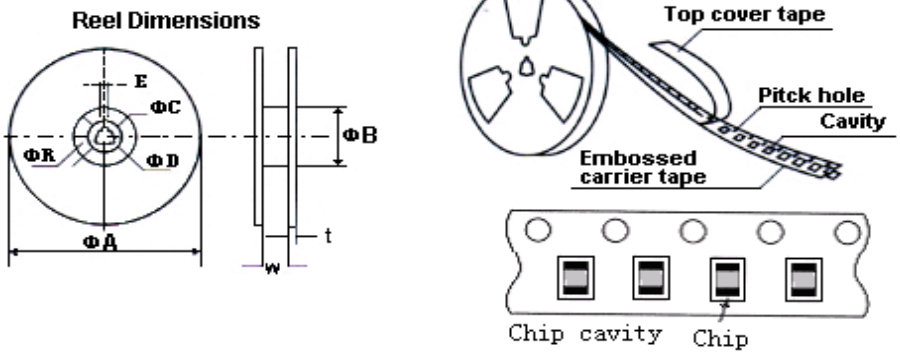
Note:
- Preheat circuit and products to 150 ℃
- 260℃ tip temperature (max)
- Reflow times: no more than 2 times
- Solder paste thickness: the best 0.08mm is ,but max is 0.1mm

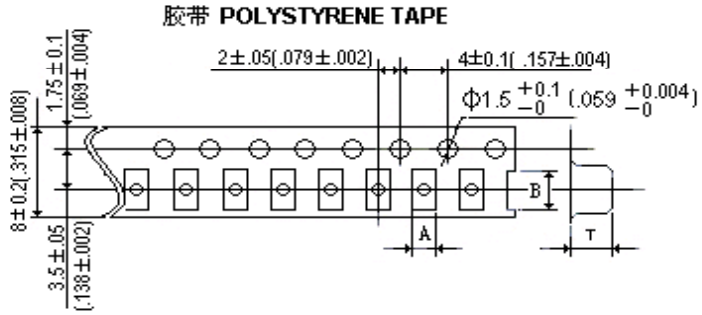
Figure 2. Hand Soldering



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

6. Pcakaging (unit:mm)

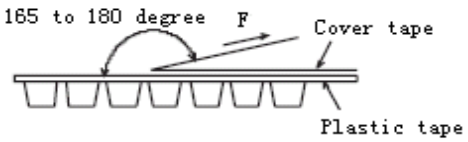




Peeling off force

Pull strength
0402～1210:20g～80g

Speed of peeling off:
300mm/min±10%



	Type	A	B	T
Polystyrene Tape	0805	1.85	2.4	1.45

Type	ΦA	ΦB	ΦC	ΦD	E	W	t	R
0805	178	60	13	21	2	8.4	2	1

Packaging Quantity :2000Pcs/Reel