

承認書

SPECIFICATION FOR APPROVAL

CUSTOMER: _____

DESCRIPTION: _____ WIRE WOUND CHIP INDUCTOR _____

Cybermax PART NO: _____ CMCW1005FR82KST _____

CUSTOMERMODELNO: _____

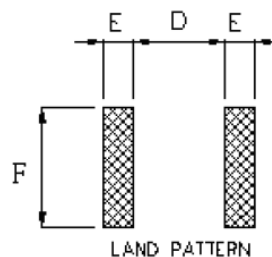
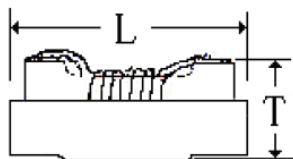
DRAWING			CUSTOMER APPROVE
MADE	CHECKED	APPROVED	
曹春宁	张有涛	陈启善	
DATE: 2019年07月08日			

变更履历

Rev.01 Page 2 of 7 www.cybermaxtech.com.cn

CUSTOMER:		REV NO:	A1.0
DESCRIPTION:	WIRE WOUND CHIP INDUCTOR	PAGE NO:	PAGE 2 OF 6
PART NO:	CMCW1005FR82KST	SN.	
CUSTOMER NO:		DATE:	2019 年 07 月 08 日

UNIT:mm



CODE	L	W	T	E	F	D	
DIMENSION	1.19MAX	0.66MAX	0.64MAX	0.40Typ.	0.64Typ.	0.64Typ.	

2. ELECTRICAL CHARACTERISTICS @25℃

ITEM	SPEC. RANGE	TEST CONDITION	TEST INSTRUMENTS
L(nH)	820±10%	7.9MHz/0.5V	HP4286A
DCR(Ω)	5.85 MAX		502BC
I _{rms} (mA)	90 MAX		VR116+VR7210
SRF	385 MIN		E5071C ENA

3. PART NUMBERING SYSTEM

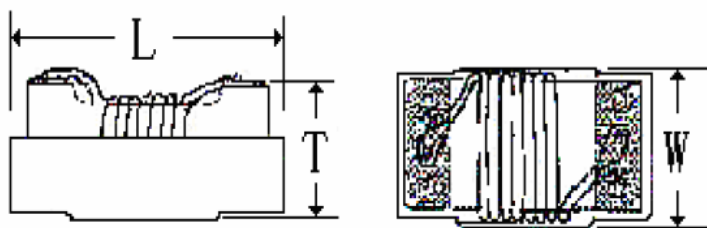
CMCW □□□□ □□ □R□ □ □ □
 2 3 4 5 6 7

- 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) : F±1%; G±2%; J±5%; K±10%; M±20%
- 6 TERMINAL (端电极材料): G-金端头; S-锡端头; Y-银钯端头
- 7 PACKAGING (包装方式): T-编带盘装; B-散装

APPROVED BY	CHECKED BY	DRAFT
陈启善	张有涛	曹春宁

CUSTOMER:					REV NO:	A1.0	
DESCRIPTION:	WIRE WOUND CHIP INDUCTOR				PAGE NO:	PAGE 3 OF 6	
PART NO:	CMCW1005FR82KST				SN.		
CUSTOMER NO:					DATE:	2019 年 07 月 08 日	
TEST	L	DCR		L	W	T	
ITEM	(nH)	(Ω)		(mm)	(mm)	(mm)	
CON.	7.9MHz/0.5V	At 25℃		1.19MAX	0.66MAX	0.64MAX	
SPEC.	820±10%	3.85 MAX					
1	821.3	2.12		1.07	0.64	0.56	
2	820.85	2.1		1.08	0.63	0.55	
3	823.3	2.11		1.09	0.62	0.56	
4	825.21	2.13		1.08	0.63	0.54	
5	821.85	2.14		1.07	0.64	0.55	
6	820.75	2.12		1.09	0.62	0.56	
7	822.3	2.11		1.08	0.64	0.54	
8	822.3	2.1		1.07	0.63	0.55	
9	821.74	2.12		1.09	0.64	0.56	
10	820.95	2.13		1.08	0.63	0.54	
X	822.05	1.55		1.08	0.63	0.55	
R	4.46	0.03		0.02	0.02	0.02	

图示:

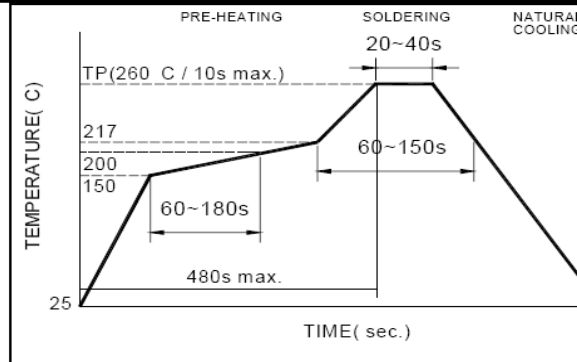


APPROVED BY	CHECKED BY	DRAFT
陈启善	张有涛	曹春宁

CUSTOMER:		REV NO:	A1.0
-----------	--	---------	------

DESCRIPTION:	WIRE WOUND CHIP INDUCTOR	PAGE NO:	PAGE 4 OF 6
PART NO:	CMCW1005FR82KST	SN.	
CUSTOMER NO:		DATE:	2019 年 07 月 08 日

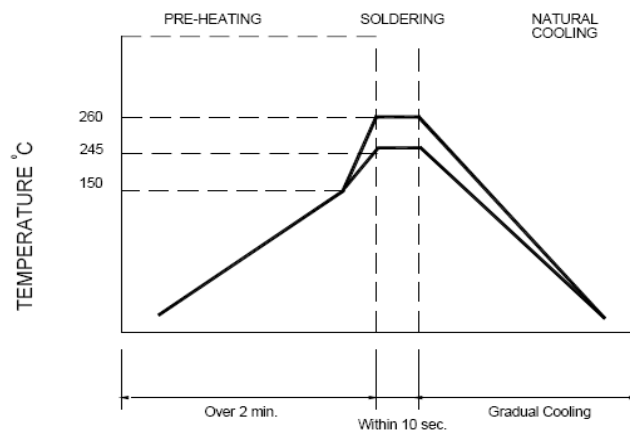
**Figure 1.
Re-flow
Soldering (Lead
Free)**



Note:

- Preheat circuit and products to 150°C
- 280°C tip temperature (max)

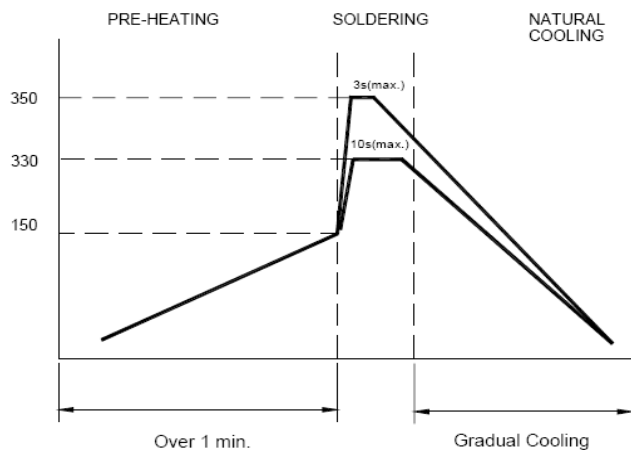
**Figure 2.
Wave Soldering**



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.

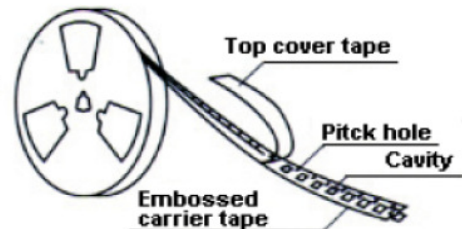
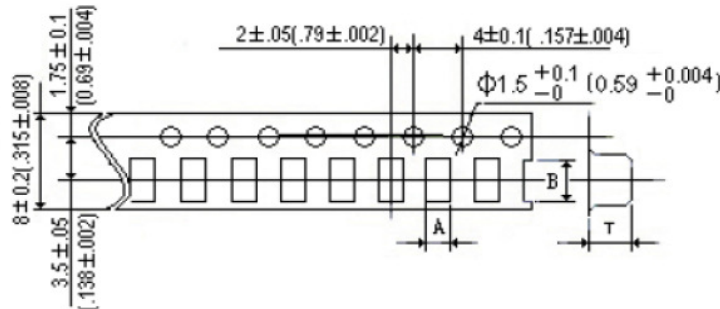
APPROVED BY	CHECKED BY	DRAWN BY
陈启善	张有涛	曹春宁

CUSTOMER:		REV NO:	A1.0
-----------	--	---------	------

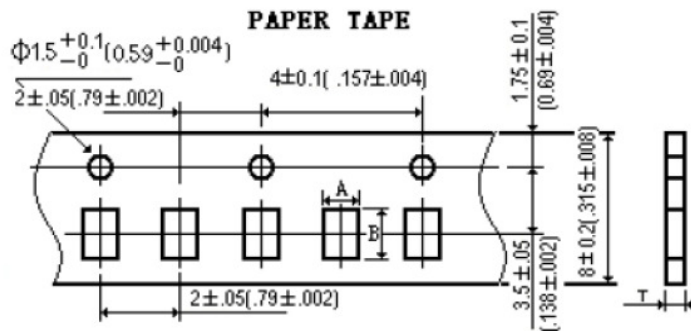
DESCRIPTION:	WIRE WOUND CHIP INDUCTOR	PAGE NO:	PAGE 5 OF 6
PART NO:	CMCW1005FR82KST	SN.	
CUSTOMER NO:		DATE:	2019 年 07 月 08 日

Tape

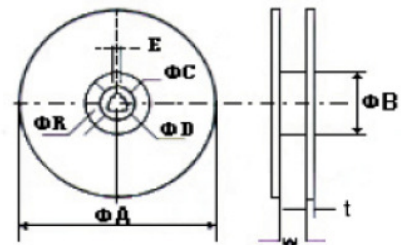
POLYSTYRENE TAPE



PAPER TAPE



Reel Dimensions



unit:(mm)

		A	B	T
纸带	0402	0.74	1.23	0.60
	0603	1.15	1.83	0.95
	0805	1.85	2.40	1.45
胶带	1008	2.73	2.90	2.34
	1210	2.96	3.60	2.40
	1812	3.22	4.82	3.15

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

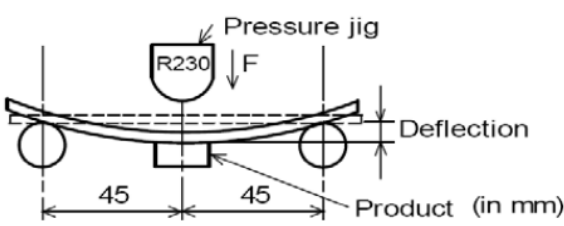
包装数量

Packaging Quantity

规格 Dimension	0402	0603	0805	1008	1210	1812
数量 Quantity(pcs)	10000	4000	3000	2000	2000	2000

APPROVED BY	CHECKED BY	DRAFT
陈启善	张有涛	曹春宁

CUSTOMER:	REV NO:	A1.0
-----------	---------	------

DESCRIPTION:	WIRE WOUND CHIP INDUCTOR	PAGE NO:	PAGE 6 OF 6
PART NO:	CMCW1005FR82KST	SN.	
CUSTOMER NO:		DATE:	2019 年 07 月 08 日
High Temperature Storage	No evidence of mechanical damage Inductance change,less than±5% Q change less than±10%	Test Temperature:125±2℃(Ceramic core)85±2℃(Ferrite core) Test Time:96±2Hours	
Low Temperature Storage	No evidence of mechanical damage Inductance change,less than±5% Q change less than±10%	Test Temperature:-40±2℃ Test Time:96±2Hours	
Moisture Resistance	No evidence of mechanical damage Inductance change,less than±5% Q change less than±10%	Test Temperature:50±2℃ Test Time:100Hours 相对湿度90~95%	
Vibration	No evidence of mechanical damage Inductance change,less than±5% Q change less than±10%	Amplitude:1.5mm X、Y、Z方向各 1Hours45min 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:2Kgf Test Time:5±1秒	
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±5% Q change less than±10%	Test Temperature:85±2℃ Test Time:1000Hours with rating current Test Time:96±2Hours	
APPROVED BY		CHECKED BY	DRAFT
陈启善		张有涛	曹春宁