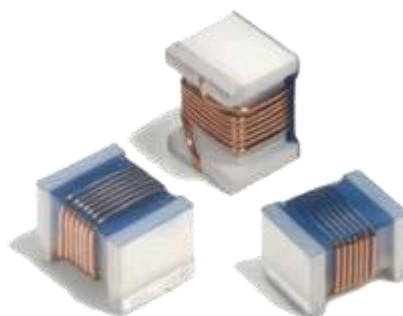


Wire Wound Chip Inductor



◆ Features

- 1、Small chip suitable for surface mounting;
- 2、High Q value and high self-resonant frequency with ceramic material;
- 3、Tight inductance tolerance and stable inductance; at high frequency;
- 4、RoHS Compliant.



◆ Application

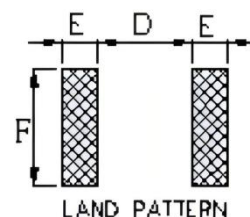
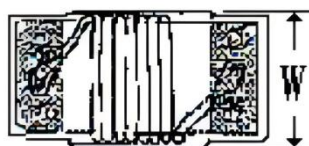
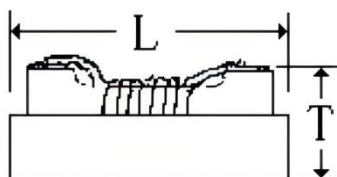
- 1、High frequency circuit in telecommunication and other equipments;
- 2、Mobile phones such as GSM, CDMA, PDC,etc;
- 3、Bluetooth, W-LAN, Broadband network.

◆ PRODUCT IDENTIFICATION

CMCW 2012 C 1R0 J S T
(1) (2) (3) (4) (5) (6) (7)

- (1) Series Type
- (2) Chip Size (mm) :Length X Width
- (3) Material Code
- (4) Inductance: R56=0.56uH 100=10uH
- (5) Inductance Tolerance: J=±5%; K=±10%;
- (6) Company Code
- (7) Packaging: Tape Carrier Package

◆ SHAPE AND DIMENSIONS (unit: mm)



Series	L	W	T	D	E	F
CMCW2012C	2.29 Max	1.73 Max	1.52 Max	1.02 Typ	1.78 Typ	0.76 Typ

◆ Specification

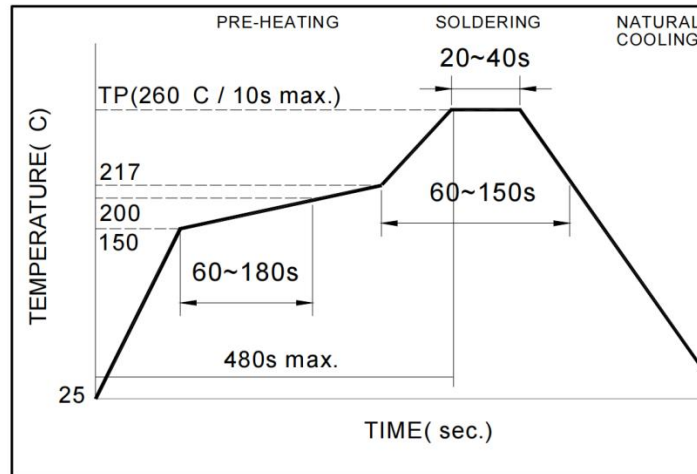
Part Number	Inductance	Test Condition	Q	SRF (Min)	DCR (Max)	Irms (Max)
	nH	MHz	(Min)	MHz	Ω	mA
CMCW2012C2N2KST	2.2	250	50@1GHz	7900	0.06	800
CMCW2012C2N7JST	2.7	250	50@1GHz	7900	0.06	800
CMCW2012C3N0JST	3.0	250	40@1.5GHz	7900	0.06	800
CMCW2012C3N3JST	3.3	250	40@1.5GHz	7900	0.08	600
CMCW2012C3N6JST	3.6	250	20@1GHz	7900	0.20	200
CMCW2012C3N9JST	3.9	250	20@1GHz	7900	0.20	150
CMCW2012C4N7JST	4.7	250	35@1GHz	6200	0.08	600
CMCW2012C5N1JST	5.1	250	50@1GHz	6200	0.08	600
CMCW2012C5N6JST	5.6	250	65@1GHz	5900	0.08	600
CMCW2012C6N2JST	6.2	250	65@1GHz	5900	0.08	600
CMCW2012C6N8JST	6.8	250	50@1GHz	5600	0.11	600
CMCW2012C7N5JST	7.5	250	50@1GHz	4800	0.14	600
CMCW2012C8N2JST	8.2	250	50@1GHz	4400	0.12	600
CMCW2012C9N1JST	9.1	250	60@500MHz	4300	0.10	600
CMCW2012C10NJST	10	250	60@500MHz	4300	0.10	600
CMCW2012C12NJST	12	250	50@500MHz	4000	0.15	600
CMCW2012C15NJST	15	250	50@500MHz	3200	0.17	600
CMCW2012C16NJST	16	250	50@500MHz	3200	0.17	600
CMCW2012C18NJST	18	250	50@500MHz	3100	0.20	600
CMCW2012C20NJST	20	250	55@500MHz	2600	0.22	500
CMCW2012C22NJST	22	250	55@500MHz	2600	0.22	500
CMCW2012C23NJST	23	250	50@500MHz	2400	0.22	500
CMCW2012C24NJST	24	250	50@500MHz	2400	0.22	500
CMCW2012C25NJST	25	250	50@500MHz	2450	0.22	500
CMCW2012C27NJST	27	250	55@500MHz	2580	0.25	500
CMCW2012C30NJST	30	250	55@500MHz	2400	0.25	500
CMCW2012C33NJST	33	250	60@500MHz	2150	0.27	500
CMCW2012C36NJST	36	250	55@500MHz	1900	0.27	500
CMCW2012C39NJST	39	250	60@500MHz	1850	0.29	500
CMCW2012C43NJST	43	200	60@500MHz	1800	0.34	500
CMCW2012C47NJST	47	200	60@500MHz	1700	0.31	500
CMCW2012C50NJST	50	200	60@500MHz	1650	0.34	500
CMCW2012C56NJST	56	200	60@500MHz	1600	0.34	500
CMCW2012C62NJST	62	200	60@500MHz	1450	0.36	500
CMCW2012C64NJST	64	200	60@500MHz	1500	0.38	500
CMCW2012C68NJST	68	200	60@500MHz	1500	0.38	500
CMCW2012C72NJST	72	150	60@500MHz	1400	0.38	500
CMCW2012C75NJST	75	150	60@500MHz	1400	0.40	450
CMCW2012C78NJST	78	150	60@500MHz	1400	0.40	450
CMCW2012C82NJST	82	150	65@500MHz	1330	0.42	400

◆ Specification

Part Number	Inductance	Test Condition	Q	SRF (Typ)	DCR (Max)	Irms (Max)
	nH	MHz	(Min)	MHz	Ω	mA
CMCW2012C91NJST	91	150	65@500MHz	1330	0.48	400
CMCW2012CR10JST	100	150	65@500MHz	1250	0.46	400
CMCW2012CR11JST	110	150	50@250MHz	1100	0.48	400
CMCW2012CR12JST	120	150	50@250MHz	1100	0.51	400
CMCW2012CR13JST	130	100	50@250MHz	920	0.56	400
CMCW2012CR14JST	140	100	50@250MHz	920	0.56	400
CMCW2012CR15JST	150	100	50@250MHz	920	0.56	400
CMCW2012CR16JST	160	100	50@250MHz	920	0.60	400
CMCW2012CR18JST	180	100	50@250MHz	920	0.64	400
CMCW2012CR20JST	200	100	50@250MHz	860	0.68	400
CMCW2012CR21JST	210	100	50@250MHz	820	0.70	400
CMCW2012CR22JST	220	100	50@250MHz	820	0.70	400
CMCW2012CR24JST	240	100	44@250MHz	770	1.00	350
CMCW2012CR25JST	250	100	45@250MHz	750	1.20	350
CMCW2012CR27JST	270	100	48@250MHz	730	1.00	350
CMCW2012CR28JST	280	100	48@250MHz	550	1.35	350
CMCW2012CR29JST	290	150	48@250MHz	450	1.40	310
CMCW2012CR30JST	300	150	48@250MHz	450	1.40	310
CMCW2012CR33JST	330	150	48@250MHz	650	1.40	310
CMCW2012CR36JST	360	100	48@250MHz	630	1.45	300
CMCW2012CR39JST	390	100	48@250MHz	600	1.50	290
CMCW2012CR42JST	420	50	33@100MHz	425	1.70	250
CMCW2012CR43JST	430	50	33@100MHz	425	1.70	250
CMCW2012CR47JST	470	50	33@100MHz	375	1.76	250
CMCW2012CR56JST	560	25	23@50MHz	330	1.90	230
CMCW2012CR62JST	620	25	23@50MHz	320	2.20	210
CMCW2012CR68JST	680	25	23@50MHz	310	2.20	190
CMCW2012CR75JST	750	25	23@50MHz	310	2.30	180
CMCW2012CR82JST	820	25	23@50MHz	310	2.35	180
CMCW2012CR88JST	880	25	23@50MHz	310	2.35	180
CMCW2012CR91JST	910	25	22@50MHz	250	2.45	170
CMCW2012C1R0JST	1000	25	20@50MHz	220	2.50	170
CMCW2012C1R2JST	1200	25	20@25MHz	180	2.90	150
CMCW2012C1R5JST	1500	25	20@25MHz	160	3.30	150
CMCW2012C1R6JST	1600	25	20@25MHz	140	3.40	150
CMCW2012C1R8JST	1800	25	20@25MHz	130	3.50	120
CMCW2012C2R2JST	2200	25	18@25MHz	100	4.50	120
CMCW2012C3R3JST	3300	25	18@25MHz	50	6.80	50
CMCW2012C4R7JST	4700	25	18@25MHz	40	7.00	30

◆ SOLDERING CONDITIONS

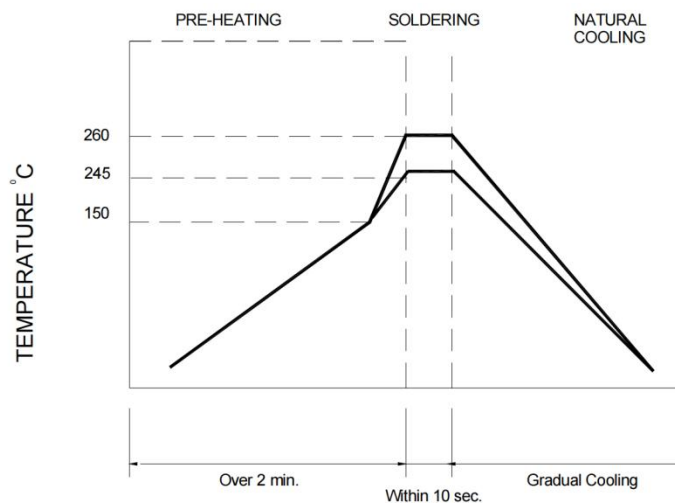
**Figure 1.
Re-flow
Soldering
(Lead
Free)**



Note:

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

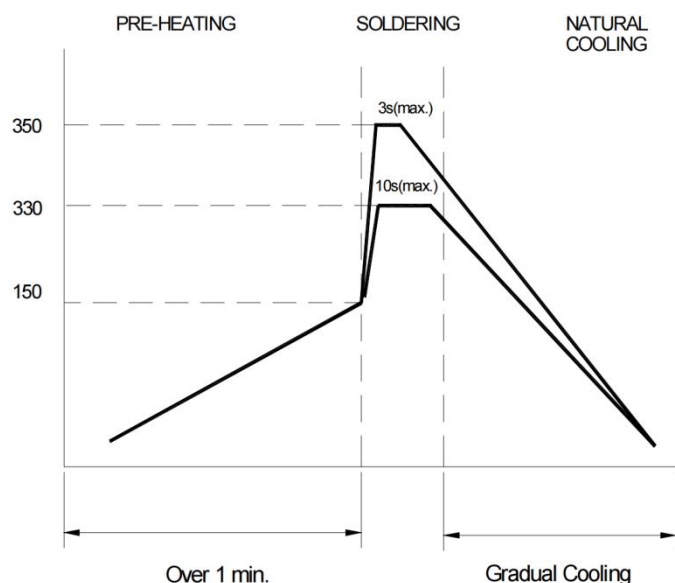
**Figure 2.
Wave
Soldering**



Note:

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

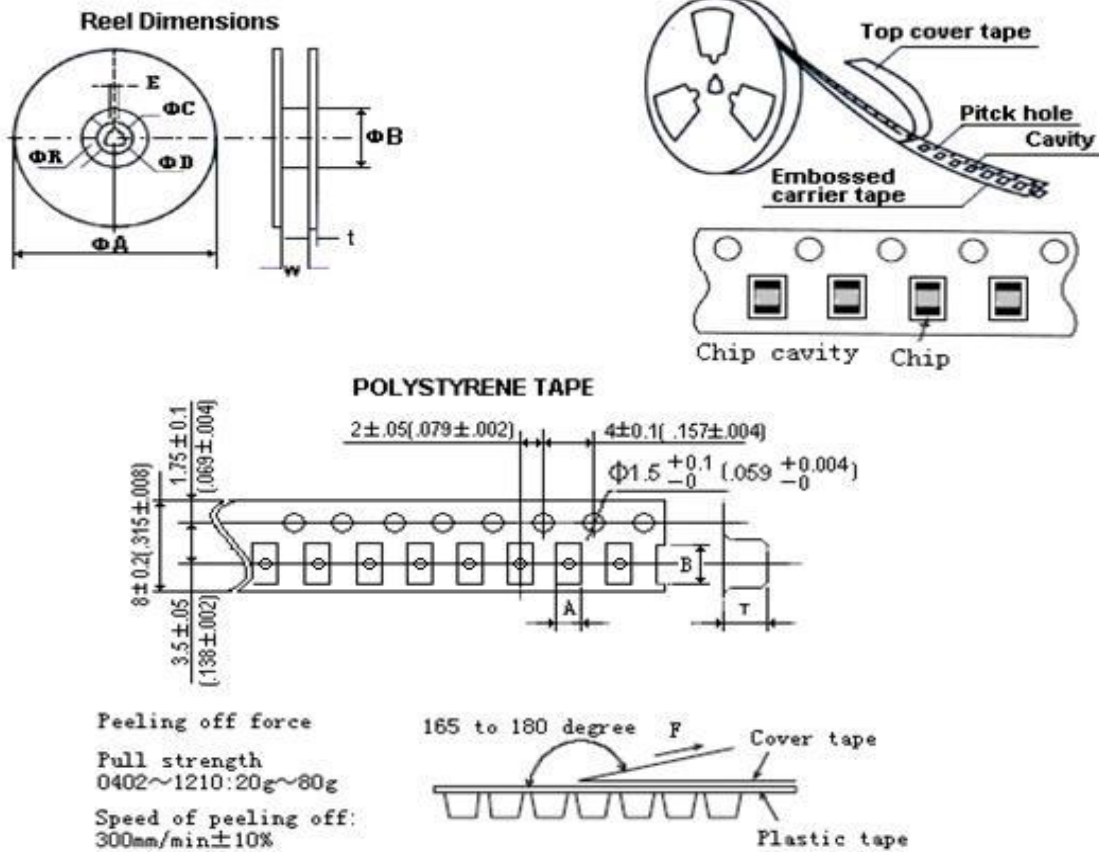
**Figure 3.
Hand
Soldering**



Note:

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

◆ PACKAGING(unit: mm)



胶带	A	B	T
0805	1.85	2.40	1.45

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

包装数量(PACKAGING QUANTITY)

规格	CMCW2012C Series
数量(pcs)	2,000