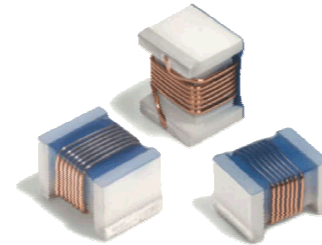


Wire Wound Chip Ceramic Inductor



◆ **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.

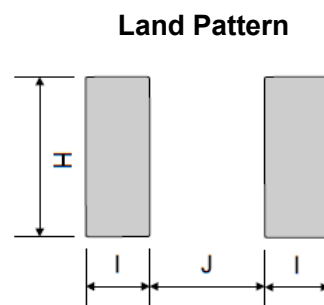
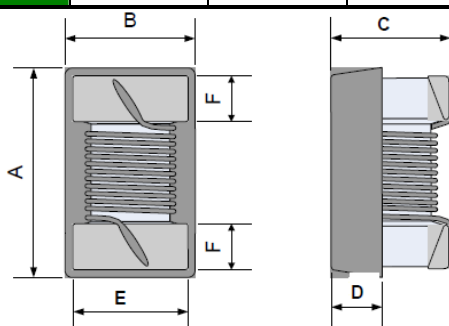
◆ **PRODUCT IDENTIFICATION**

CMCW 3225 C R10 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: 0N1=0.1nH; 4N7=4.7nH
10N=10nH; R10=100nH
1R0=1000nH
- (5) Inductance Tolerance: G=±2%; J=±5%;
K=±10%;
- (6) Company Code
- (7) Packaging: Tape Carrier Package

◆ **SHAPE AND DIMENSIONS** (unit: mm)

Series	A	B	C	D	E	F	H	I	J
CMCW1005C	1.2 ±0.10	0.60±0.10	0.60±0.10	0.20±0.05	0.50±0.05	0.20±0.05	0.64±0.05	0.40±0.05	0.60±0.05
CMCW1608C	1.68±0.10	1.00±0.10	0.85±0.10	0.32±0.05	0.76±0.05	0.33±0.05	1.02±0.05	0.60±0.05	0.60±0.05
CMCW2012C	2.20±0.10	1.62±0.10	1.45±0.10	0.48±0.05	1.22±0.05	0.45±0.05	1.72±0.05	1.02±0.05	0.76±0.05
CMCW2520C	2.65±0.10	2.60±0.10	2.00±0.10	0.50±0.05	2.05±0.05	0.45±0.05	2.50±0.05	1.02±0.05	1.27±0.05
CMCW3216C	3.46±0.10	2.06±0.10	1.42±0.10	0.50±0.05	1.55±0.05	0.45±0.05	1.88±0.05	1.02±0.05	1.78±0.05
CMCW3225C	3.46±0.10	2.75±0.10	2.60±0.10	0.50±0.05	2.05±0.05	0.45±0.05	2.97±0.05	1.02±0.05	1.78±0.05
CMCW4532C	4.75±0.10	3.71±0.10	3.33±0.10	1.72±0.05	2.85±0.05	0.53±0.05	3.00±0.05	1.14±0.05	3.00±0.05



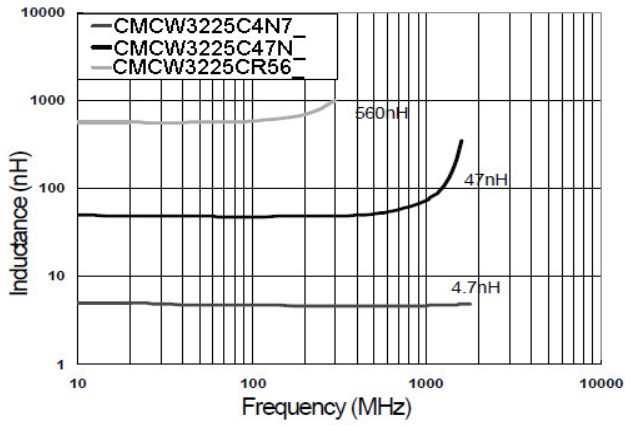
◆ Specifications

Part Number	Inductance	Min. Quality Factor	L/Q Test Condition	Max. DC Resistance	Max. Rated Current	Min. Self-resonant Frequency
	nH	Q	MHZ	Ω	mA	MHZ
CMCW3225C Series						
CMCW3225C3N9JST	3.9	30	100/300	0.05	1000	6000
CMCW3225C4N7JST	4.7	30	100/300	0.065	1000	5800
CMCW3225C8N2JST	8.2	30	100/300	0.07	1000	5500
CMCW3225C10NJST	10	40	100/300	0.08	1000	4000
CMCW3225C12NJST	12	40	100/300	0.08	1000	3200
CMCW3225C15NJST	15	40	100/300	0.1	1000	3200
CMCW3225C18NJST	18	50	100/300	0.1	1000	2800
CMCW3225C22NJST	22	50	100/300	0.1	1000	2200
CMCW3225C27NJST	27	50	100/300	0.11	1000	1800
CMCW3225C33NJST	33	55	100/300	0.11	1000	1800
CMCW3225C39NJST	39	55	100/300	0.12	1000	1500
CMCW3225C43NJST	43	55	100/300	0.12	1000	1500
CMCW3225C47NJST	47	55	100/300	0.13	1000	1500
CMCW3225C56NJST	56	55	100/300	0.14	1000	1450
CMCW3225C68NJST	68	55	100/300	0.15	900	1200
CMCW3225C82NJST	82	55	100/300	0.2	900	1000
CMCW3225CR10JST	100	55	100/300	0.2	850	900
CMCW3225CR12JST	120	60	100/300	0.25	800	800
CMCW3225CR15JST	150	60	100/300	0.25	750	700
CMCW3225CR18JST	180	60	50/300	0.3	700	650
CMCW3225CR22JST	220	60	50/300	0.4	770	650
CMCW3225CR27JST	270	40	50/300	0.4	630	580
CMCW3225CR33JST	330	45	50/150	0.58	590	580
CMCW3225CR39JST	390	45	50/150	0.58	530	510
CMCW3225CR47JST	470	45	50/150	0.8	490	480
CMCW3225CR56JST	560	45	35/150	1.1	460	420
CMCW3225CR68JST	680	45	35/150	1.2	430	400
CMCW3225CR82JST	820	45	35/150	1.82	400	370
CMCW3225C1R0JST	1000	45	35/150	1.85	320	340
CMCW3225C1R2JST	1200	35	35/150	1.87	300	220
CMCW3225C1R5JST	1500	20	7.9/50	1.95	310	160
CMCW3225C1R8JST	1800	30	7.9/50	2.25	310	160
CMCW3225C2R2JST	2200	25	7.9/50	2.41	310	130
CMCW3225C3R0JST	3000	20	7.9/25	3.12	300	110
CMCW3225C3R9JST	3900	20	7.9/25	3.6	290	60
CMCW3225C4R7JST	4700	20	7.9/25	4	280	60
CMCW3225C5R6JST	5600	15	7.9/25	5	250	50
CMCW3225C6R8JST	6800	15	7.9	8	230	40
CMCW3225C8R6JST	8600	15	7.9	9	200	40

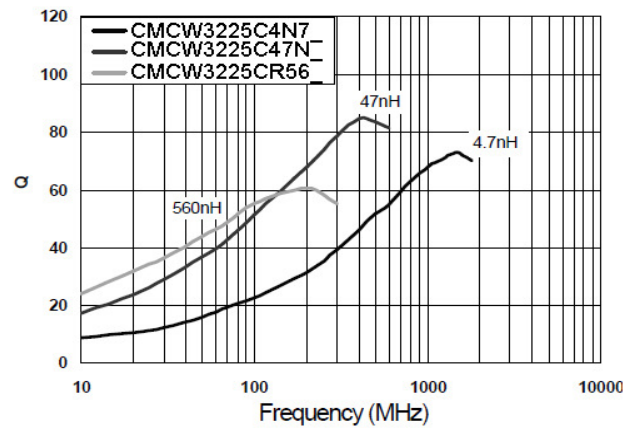
◆ Typical Electrical Characteristic

CMCW3225C Series

Inductance vs. Frequency Characteristics

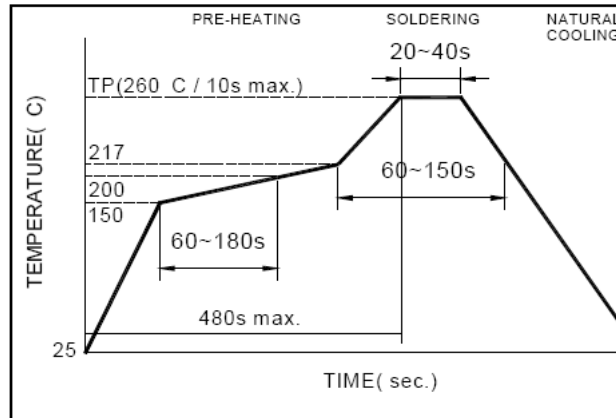


Q vs. Frequency Characteristics



◆Soldering Conditions

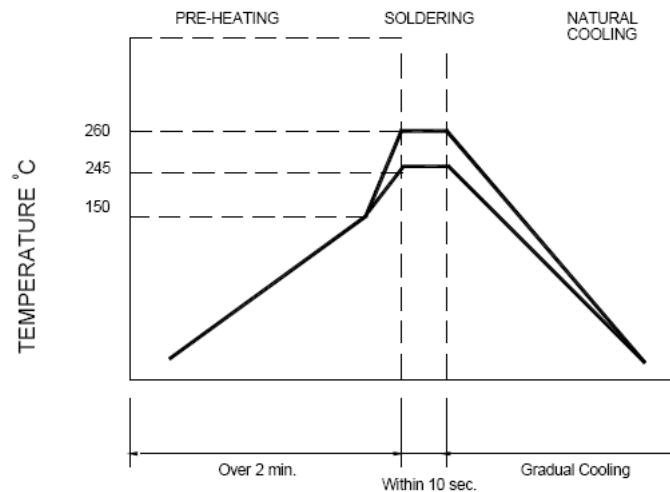
**Figure 1.
Re-flow
Soldering (Lead
Free)**



Note:

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

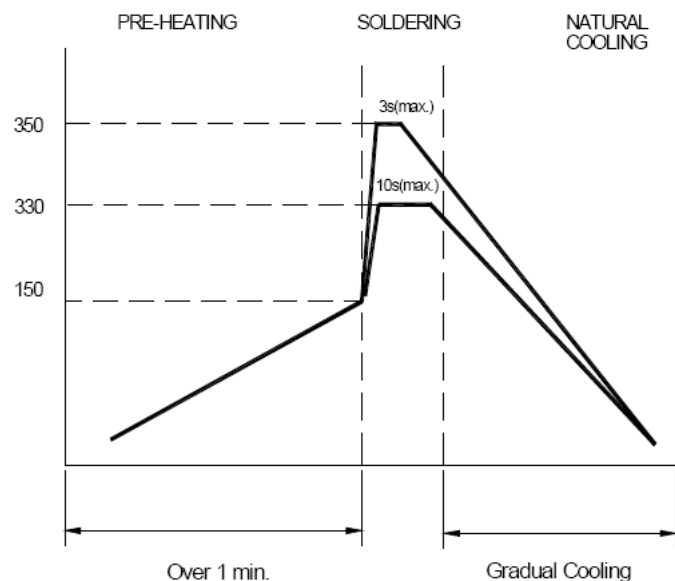
**Figure 2.
Wave Soldering**



Note :

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

**Figure 3.
Hand Soldering**



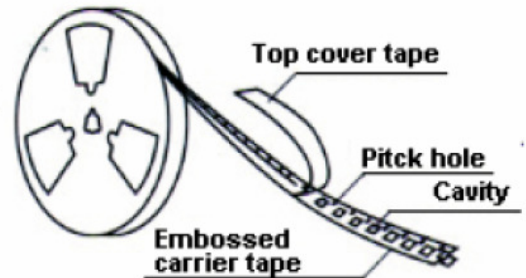
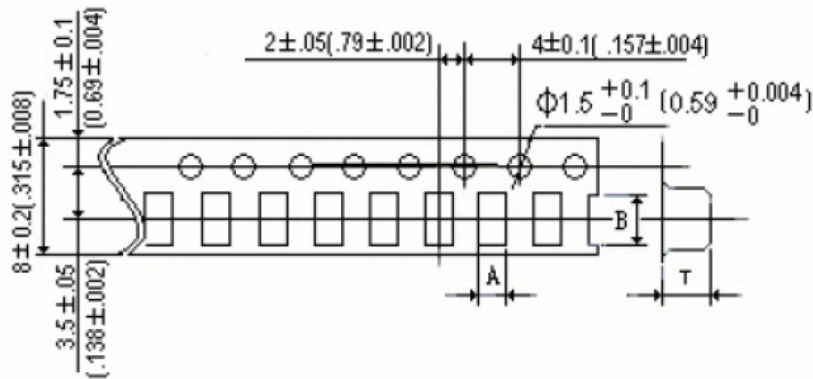
Note:

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

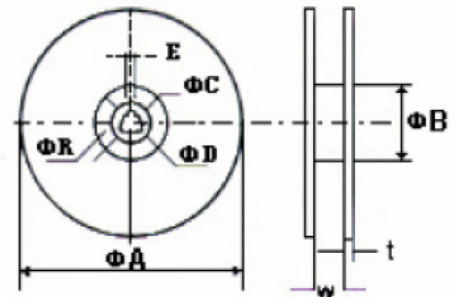
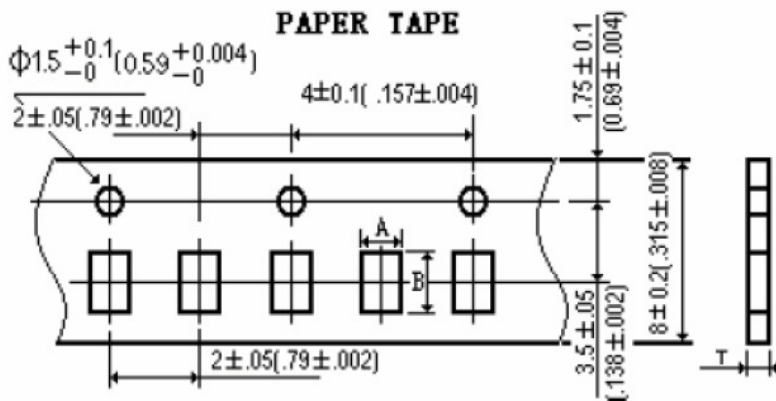
◆ Packaging Style

1、Tape

POLYSTYRENE TAPE



Reel Dimensions



		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
	1812	3.22	4.82	3.15

unit:(mm)

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

2、Packaging Quantity

Dimension	1005 (0402)	1608 (0603)	2012 (0805)	2520 (1008)	3225 (1210)	4532 (1812)
Quantity(Pcs)	10000	4000	3000	2000	2000	2000