



# Wire Wound Chip Ceramic Inductors



## PCW0402 Series

### Scope:

This specification applies to Wire Wound Ceramic Chip Inductors.



### Features:

1. Minature size, suitable for SMT.
2. Using terminal electrode structure to restrain the.
3. Parasitic component effect quite caused by lead.
4. Execellent in solderability and heat resistance.

### Application :

1. Modems, Mobile Radios.
2. Cordless Telephones.
3. Global Positioning Systems.
4. Telecommunications Systems.

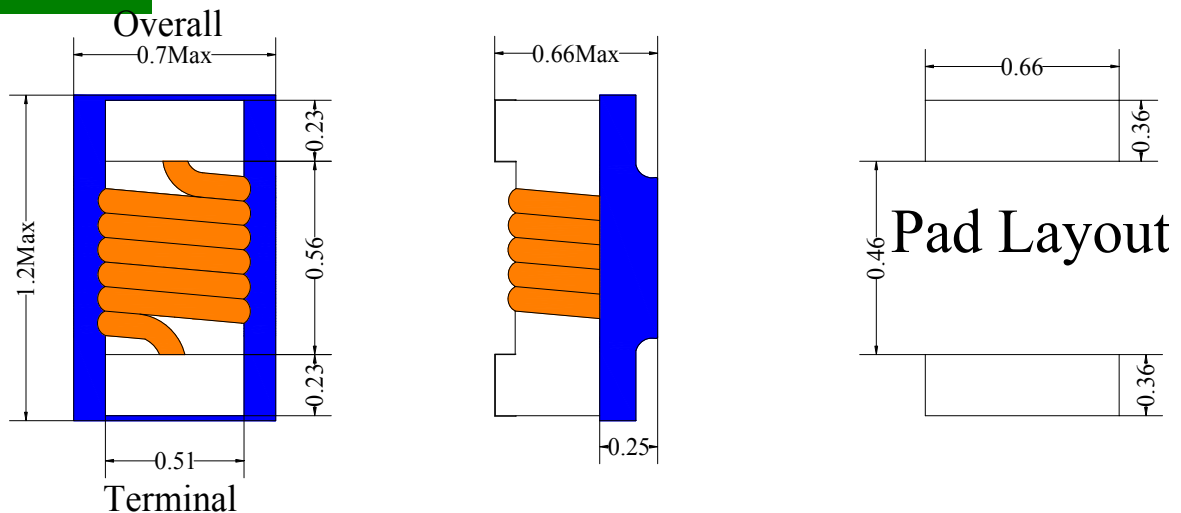
### Rating:

1. Operating Temperature:  $-40^{\circ}\text{C} \sim 125^{\circ}\text{C}$  (Including self - temperature rise)
2. Storage Temperature:  $20^{\circ}\text{C} \sim 25^{\circ}\text{C}$  R.H.65% (In Tape & Reel Condition)

### Standard Testing Condition:

	Unless otherwise specified	In case of doubt
Temperature	Ordinary Temperature(15 to 35°C)	20 to 30°C
Humidity	Ordinary Humidity(25 to 85% RH)	50 to 80 %RH

### Dimension:





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#### Electrical Specifications:

Part No.	Inductance	L/Q Test Freq.	Q	SRF	RDC	Irms	Tolerance
	(nH)	(MHz)	Min.	(MHz)Min.	( $\Omega$ )Max.	(mA)Max.	
PCW0402-1N0K	1.0	250/250	16	12700	0.045	1360	K,J,B
PCW0402-1N2K	1.2	250/250	10	10400	0.14	640	K,J,B
PCW0402-1N3K	1.3	250/250	10	10400	0.14	640	K,B
PCW0402-1N9K	1.9	250/250	16	11300	0.07	1040	K,J,B
PCW0402-2N0K	2.0	250/250	16	11100	0.07	1040	K,J,B
PCW0402-2N2K	2.2	250/250	19	10800	0.07	960	K,J,B
PCW0402-2N4K	2.4	250/250	15	10500	0.068	790	K,J,B
PCW0402-2N5K	2.5	250/250	13	10400	0.15	640	K,J,B
PCW0402-2N7K	2.7	250/250	16	10400	0.12	640	K,J,B
PCW0402-3N3K	3.3	250/250	19	7000	0.066	840	K,J,H
PCW0402-3N6K	3.6	250/250	19	6800	0.066	840	K,J,H
PCW0402-3N9K	3.9	250/250	19	6000	0.066	840	K,J,H
PCW0402-4N3K	4.3	250/250	18	6000	0.091	700	K,J,H
PCW0402-4N7K	4.7	250/250	15	4770	0.13	640	K,J,H
PCW0402-5N1K	5.1	250/250	20	4800	0.083	800	K,J,H
PCW0402-5N6K	5.6	250/250	20	4800	0.083	760	K,J,H
PCW0402-5N8K	5.8	250/250	20	4800	0.083	760	K,J,H
PCW0402-6N2K	6.2	250/250	20	4800	0.083	760	K,J,H
PCW0402-6R8K	6.8	250/250	20	4800	0.083	680	K,J,H
PCW0402-7N3K	7.3	250/250	20	4800	0.12	680	K,J,H
PCW0402-7N5K	7.5	250/250	22	4800	0.1	680	K,J,H
PCW0402-8N2K	8.2	250/250	22	4400	0.1	680	K,J,H
PCW0402-8N7K	8.7	250/250	18	4100	0.2	480	K,J,H
PCW0402-9N0K	9.0	250/250	22	4160	0.1	680	K,J,H
PCW0402-9N1K	9.1	250/250	22	4160	0.1	680	K,J,H
PCW0402-9N5K	9.5	250/250	18	4000	0.2	480	K,J,H
PCW0402-10NK	10	250/250	21	3900	0.2	480	K,J,H,G
PCW0402-11NK	11	250/250	24	3680	0.12	640	K,J,H,G
PCW0402-12NK	12	250/250	24	3600	0.12	640	K,J,H,G
PCW0402-13NK	13	250/250	24	3450	0.21	440	K,J,H,G
PCW0402-15NK	15	250/250	24	3280	0.17	560	K,J,H,G
PCW0402-16NK	16	250/250	24	3100	0.22	560	K,J,H,G
PCW0402-17NK	18	250/250	25	3100	0.23	420	K,J,H,G
PCW0402-18NK	19	250/250	24	3040	0.2	480	K,J,H,G



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	(nH)	(MHz)	Min.	(MHz)Min.	( $\Omega$ )Max.	(mA)Max.	
PCW0402-20NK	20	250/250	25	3000	0.25	420	K,J,H,G
PCW0402-22NK	22	250/250	25	2800	0.3	400	K,J,H,G
PCW0402-23NK	23	250/250	22	2720	0.3	400	K,J,H,G
PCW0402-23NK	24	250/250	25	2700	0.3	400	K,J,H,G
PCW0402-27NK	27	250/250	24	2480	0.3	400	K,J,H,G
PCW0402-30NK	30	250/250	25	2350	0.35	400	K,J,H,G
PCW0402-33NK	33	250/250	24	2350	0.4	400	K,J,H,G
PCW0402-36NK	36	250/250	24	2320	0.44	320	K,J,H,G
PCW0402-39NK	39	250/250	25	2100	0.55	200	K,J,H,G
PCW0402-40NK	40	250/250	24	2240	0.65	320	K,J,H,G
PCW0402-43NK	43	250/250	25	2030	0.81	100	K,J,H,G
PCW0402-47NK	47	250/250	20	2100	0.83	150	K,J,H,G
PCW0402-51NK	51	250/250	25	1750	0.82	100	K,J,H,G
PCW0402-56NK	56	250/250	22	1760	0.97	100	K,J,H,G
PCW0402-68NK	68	250/250	22	1620	1.12	100	K,J,H,G
PCW0402-72NK	72	250/250	20	1260	2.0	30	K,J,H,G
PCW0402-82NK	82	250/250	20	1260	1.55	50	K,J,H,G
PCW0402-R10K	100	250/250	20	1160	2.0	30	K,J,H,G
PCW0402-R18K	180	100/100	8	700	2.7	50	K,J,H,G
PCW0402-R20K	220	100/100	8	700	4.0	50	K,J,H,G

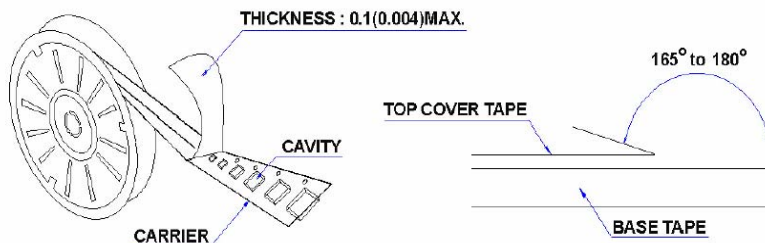
**NOTE:** G=±2% / H=±3% / J=±5% / K=±10%

1. Operating temperature range, -40°C ~ 125(Including self - temperature rise).
2. Irms for a 15°C temperature rise from 25°C ambient.
3. L/Q Test OSC @200mV.

#### Packaging:

##### 1. Packaging -Cover Tape

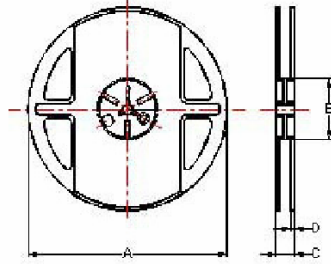
The force for tearing off cover tape is 10 to 100 grams in the arrow direction



## 2. Packaging Quantity:

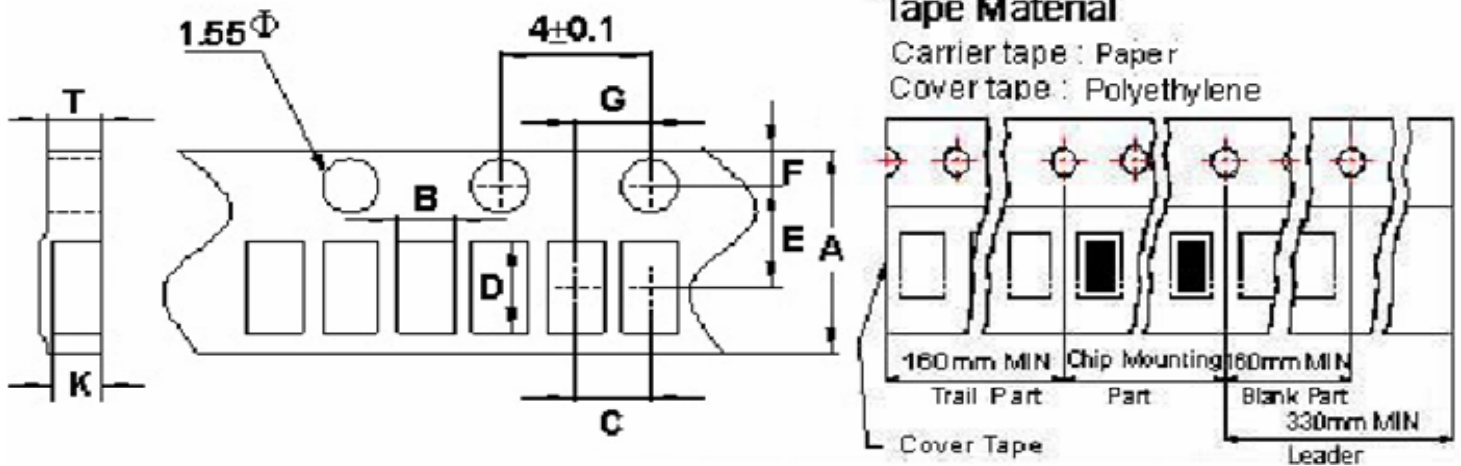
Type	Pcs/Reel
PCW0402	4000

## 3. Reel Dimensions



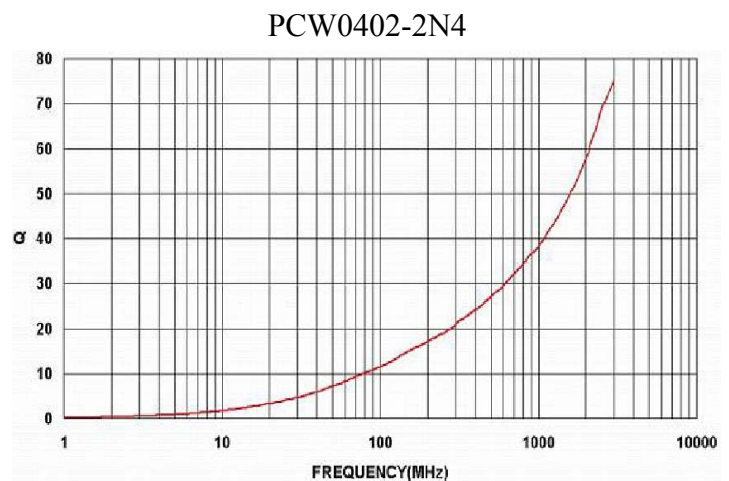
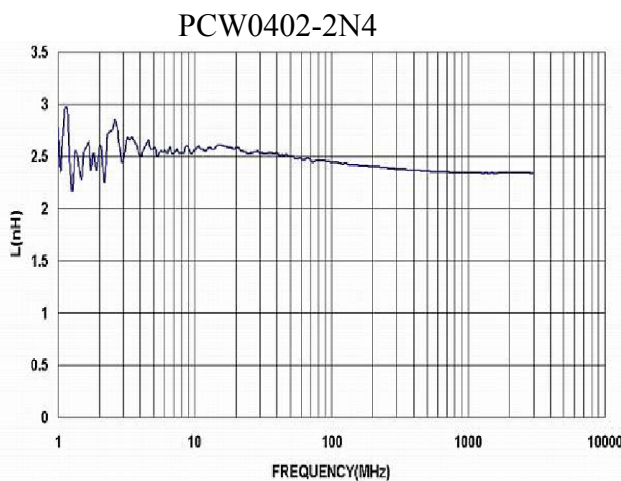
Type	A	B	C	D
PCW0402	178	60	12	1.5

## 4. Tape Dimensions in mm



Type	A	B	C	D	E	F	G	K	T
PCW0402	8	0.67	2	1.2	3.5	1.75	2	0.59	0.75

## Graph:



## Note:

1. Please make sure that your product has been evaluated and confirmed against your specifications when our product is mounted to your product.
2. Do not knock nor drop.
3. All the items and parameters in this product specification have been prescribed on the premise that our product is between you and us. You are requested not to use our product deviating from such agreement.
4. Please keep the distance between transformer/coil and other components (refer to the standard IEC 950)
5. The moisture sensitivity level (MSL) of products is classified as level 1.