



# Wire Wound Chip Ceramic Inductors



## PCW0603 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. Excellent in solderability and heat resistance.

### Application :

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

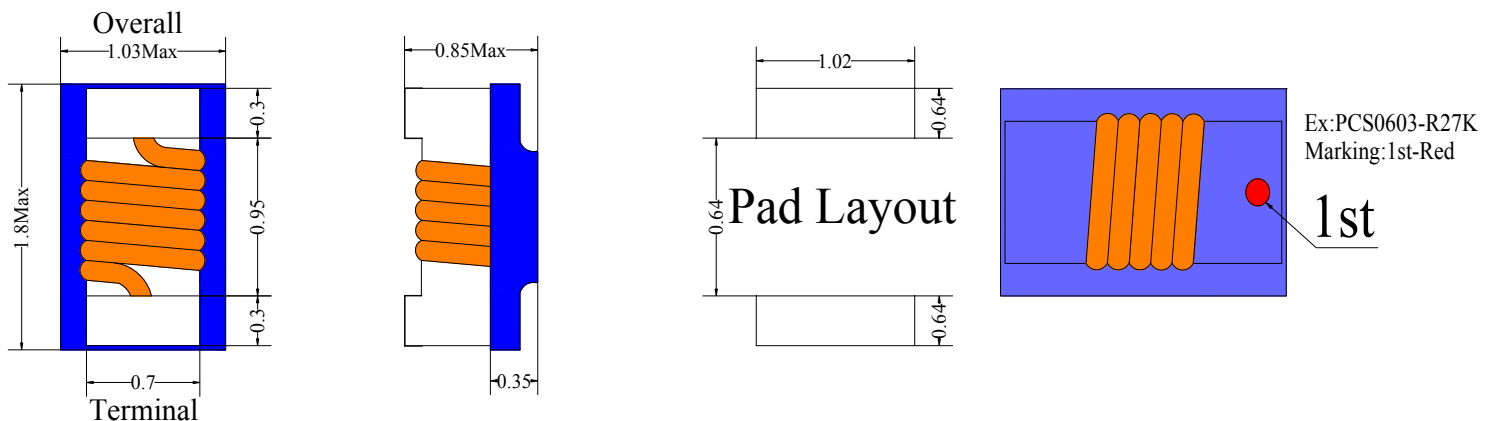
### Rating:

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:





## Wire Wound Chip Ceramic Inductors



### PCW0603 Series

#### Electrical Specifications:

Part No.	Inductance	L/Q Test Freq.	Q	SRF	RDC	Irms	Tolerance	Color Code 1st
	(nH)	(MHz)	Min.	(MHz)Min	( $\Omega$ )Max.	(mA)Max.		
PCW0603-1N6K	1.6	250/250	24	12500	0.03	700	K,J,B	RED
PCW0603-1N8K	1.8	250/250	16	12500	0.045	700	K,J,B	BLK
PCW0603-2N2K	2.2	250/250	13	12500	0.25	700	K,J,B	YEL
PCW0603-3N3K	3.3	250/250	35	5900	0.045	700	K,J,H	BLU
PCW0603-3N6K	3.6	250/250	22	5900	0.063	700	K,J,H,G	RED
PCW0603-3N9K	3.9	250/250	22	6900	0.08	700	K,J,H,G	BRN
PCW0603-4N3K	4.3	250/250	22	5900	0.063	700	K,J,H,G	ORN
PCW0603-4N7K	4.7	250/250	20	5800	0.116	700	K,J,H,G	VIO
PCW0603-5N1K	5.1	250/250	20	5700	0.14	700	K,J,H,G	GRN
PCW0603-5N6K	5.6	250/250	20	5800	0.17	700	K,J,H,G	YEL
PCW0603-6N3K	6.3	250/250	20	5700	0.14	700	K,J,H,G	WHT
PCW0603-6N8K	6.8	250/250	27	5800	0.11	700	K,J,H,G	RED
PCW0603-7N5K	7.5	250/250	28	4800	0.106	700	K,J,H,G	BRN
PCW0603-8N2K	8.2	250/250	28	4700	0.109	700	K,J,H,G	WHT
PCW0603-8N7K	8.7	250/250	28	4600	0.109	700	K,J,H,G	YEL
PCW0603-9N1K	9.1	250/250	28	4800	0.12	700	K,J,H,G	VIO
PCW0603-9N5K	9.5	250/250	28	5400	0.135	700	K,J,H,G	BLU
PCW0603-10RK	10	250/250	31	4800	0.13	700	K,J,H,G	ORN
PCW0603-11RK	11	250/250	33	4000	0.086	700	K,J,H,G	GRY
PCW0603-12RK	12	250/250	35	4000	0.13	700	K,J,H,G	YEL
PCW0603-13RK	13	250/250	30	4000	0.16	700	K,J,H,G	BLK
PCW0603-15RK	15	250/250	35	4000	0.17	700	K,J,H,G	GRN
PCW0603-16RK	16	250/250	34	3300	0.104	700	K,J,H,G	WHT
PCW0603-18RK	18	250/250	35	3100	0.17	700	K,J,H,G	BLU
PCW0603-20RK	20	250/250	38	3000	0.19	700	K,J,H,G	RED
PCW0603-22RK	22	250/250	38	3000	0.19	700	K,J,H,G	VIO
PCW0603-23RK	23	250/250	38	2850	0.19	700	K,J,H,G	ORN
PCW0603-24RK	24	250/250	37	2650	0.135	700	K,J,H,G	BLK
PCW0603-27RK	27	250/250	40	2800	0.22	600	K,J,H,G	GRY
PCW0603-30RK	30	250/250	37	2250	0.144	600	K,J,H,G	BRN
PCW0603-33RK	33	250/250	40	2300	0.22	600	K,J,H,G	WHT
PCW0603-36RK	36	250/250	38	2080	0.25	600	K,J,H,G	RED
PCW0603-39RK	39	250/250	40	2200	0.25	600	K,J,H,G	BLK
PCW0603-43RK	43	250/250	39	2000	0.28	600	K,J,H,G	ORN



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## PCS603 Series

### Electrical Specifications:

Part No.	Inductance	L/Q Test Freq.	Q	SRF	RDC	Irms	Tolerance	Color Code 1st
	(nH)	(MHz)	Min.	(MHz)Min	(Ω)Max.	(mA)Max.		
PCW0603-47NK	47	200/200	38	2000	0.28	600	K,J,H,G	BRN
PCW0603-51NK	51	200/200	38	1900	0.31	600	K,J,H,G	BRN
PCW0603-56NK	56	200/200	38	1900	0.31	600	K,J,H,G	RED
PCW0603-68NK	68	200/200	37	1700	0.34	600	K,J,H,G	ORN
PCW0603-72NK	72	150/150	34	1700	0.49	400	K,J,H,G	YEL
PCW0603-82NK	82	150/150	34	1700	0.54	400	K,J,H,G	GRN
PCW0603-91NK	91	150/150	34	1400	0.58	400	K,J,H,G	BLK
PCW0603-R10K	100	150/150	34	1400	0.58	400	K,J,H,G	BLU
PCW0603-R11K	110	150/150	32	1350	0.61	300	K,J,H,G	VIO
PCW0603-R12K	120	150/150	32	1300	0.75	300	K,J,H,G	GRY
PCW0603-R15K	150	150/150	28	990	0.92	280	K,J,H,G	WHT
PCW0603-R16K	160	100/100	25	990	1.25	240	K,J,H,G	YEL
PCW0603-R18K	180	100/100	25	990	1.25	240	K,J,H,G	BLK
PCW0603-R20K	200	100/100	25	900	2.1	200	K,J,H,G	RED
PCW0603-R21K	210	100/100	27	895	2.06	200	K,J,H,G	GRY
PCW0603-R22K	220	100/100	25	900	2.1	200	K,J,H,G	BRN
PCW0603-R24K	240	100/100	25	900	2.2	200	K,J,H,G	GRN
PCW0603-R25K	250	100/100	25	822	3.55	120	K,J,H,G	VIO
PCW0603-R27K	270	100/100	24	900	2.8	170	K,J,H,G	RED
PCW0603-R33K	330	100/100	25	900	3.89	100	K,J,H,G	ORN
PCW0603-R39K	390	100/100	25	900	4.35	100	K,J,H,G	YEL
PCW0603-R47K	470	100/100	25	500	4.5	100	K,J,H,G	GRN
PCW0603-R56K	560	100/100	23	460	4.7	90	K,J,H,G	BLU

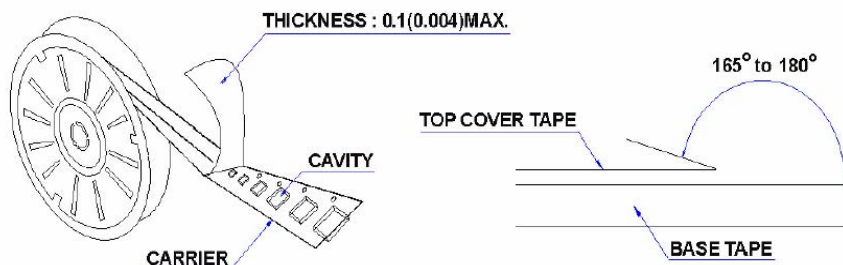
**NOTE:** G=±2% / H=±3% / J=±5% / K=±10%

1. Operating temperature range, -40°C ~ 125°C (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

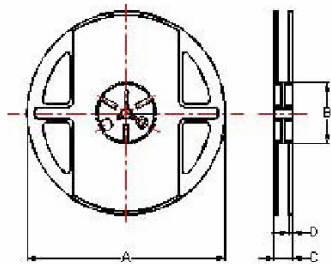
The force for tearing off cover tape is 10 to 100 grams in the arrow direction



## 2. Packaging Quantity:

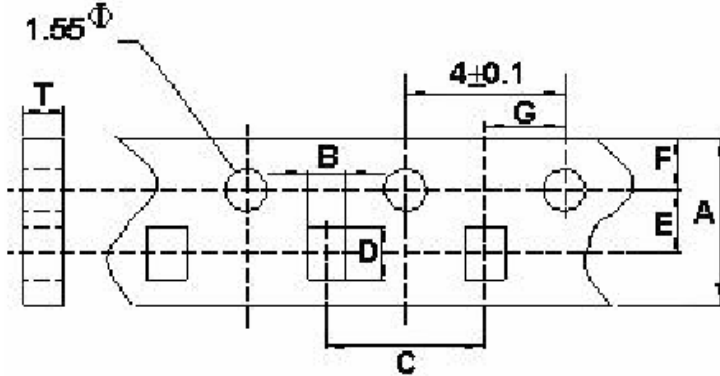
Type	Pcs/Reel
PCW0603	4000

## 3. Reel Dimensions



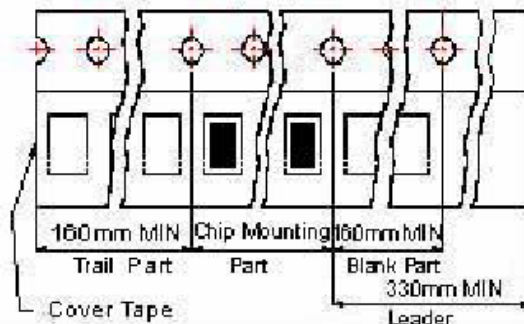
Type	A	B	C	D
PCW0603	178	60	12	1.5

## 4. Tape Dimensions in mm



### Tape Material

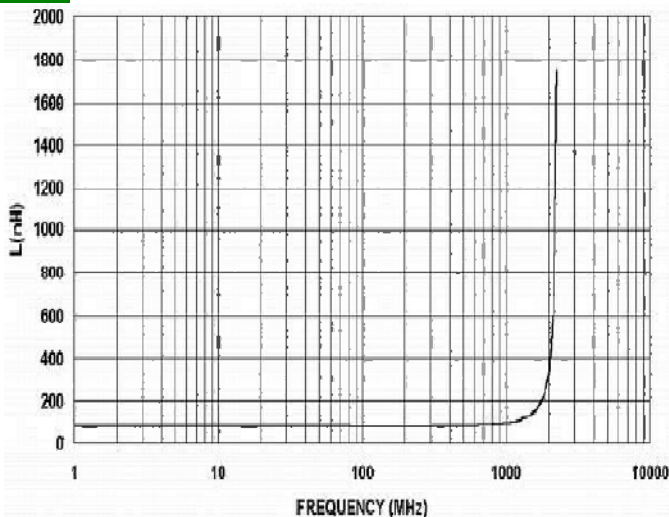
Carrier tape : Paper  
Cover tape : Polyethylene



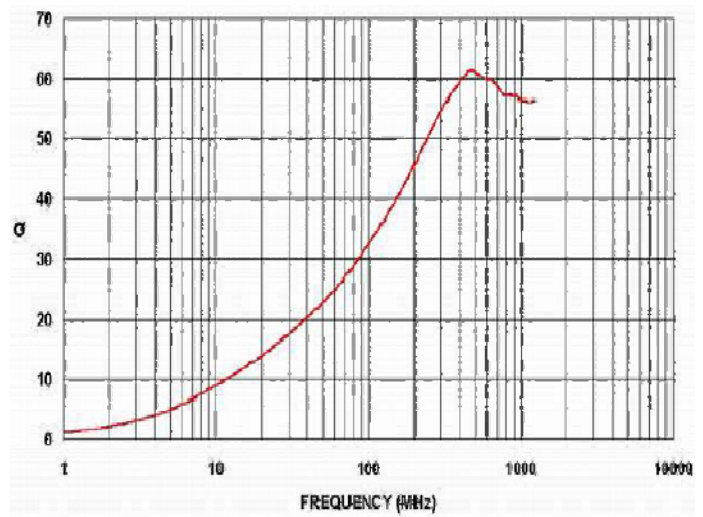
Type	A	B	C	D	E	F	G	T
PCW0603	8	1.2	4	1.8	3.5	1.75	2	1.05

## Graph:

PCW0603-82NJ



PCW0603-82NJ



## 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 pr isbetween 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.