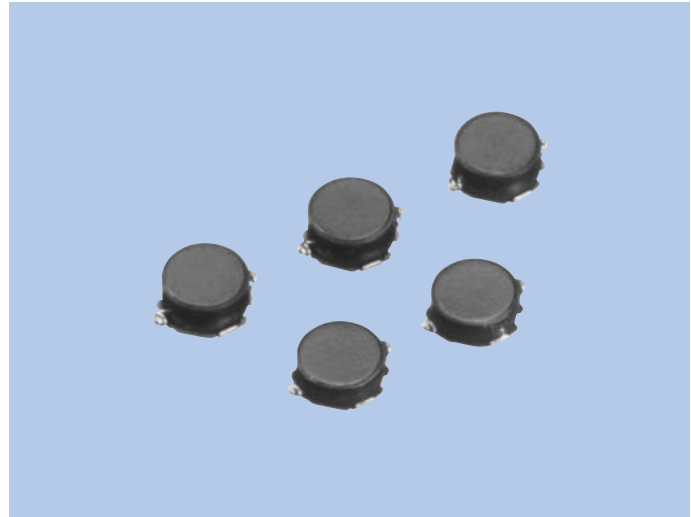


# Power Inductors C3-P, C4-P Series

## OUTLINE

Compact, low-height, and large current choke coil used in digital devices and next generation mobile phones.

Products of 1.2 mm and above have been serialized.



## FEATURES

1. Low DCR realized due to closed magnetic circuit structure with magnetic resin sealed coil section.
2. Shock-resistant structure using the wide terminals.
3. Cost saving realized without ring core.
4. Stable supply enabled due to automated production and construction.
5. Lead free product.

## USES

Used for DC-DC converter power supply circuits in miniature mobile devices (mobile phones, mobile game machines, DSC, DVC, PDA, etc.).

## SPECIFICATIONS

Type	Size (mm)	H length (Unit : mm)	Inductance (μH)	Operational Frequency (kHz)	Rated Current (A)	DC Resistance (mΩ)	Pcs/Reel
C3-P1.2R	3.0×3.0	1.2	1.2~47	10~1000	0.26~1.50	55~1300	3000
C3-P1.5R	3.0×3.0	1.5	1.5~47	10~1000	0.33~2.40	58~1050	3000
C4-P1.5R	4.0×4.0	1.5 max.	1.0~47	10~1000	0.35~2.85	45~850	3000
C4-P1.8R	4.0×4.0	1.8 max.	1.2~68	10~1000	0.37~2.70	40~920	3000

**DATA LIST (CP Series)**

**C3-P1.2R**

Item	Stamp	Inductance ( $\mu$ H)	Inductance		DCR (m $\Omega$ ) typ.	DC Current (A) Inductance -30% typ. A
			Tolerance (%)	Test Freq (kHz)		
DB	1R2	1.2	$\pm$ 30	1kHz	55	1.50
DC	1R5	1.5	$\pm$ 30	1kHz	66	1.40
DD	1R8	1.8	$\pm$ 30	1kHz	76	1.30
DF	2R7	2.7	$\pm$ 30	1kHz	83	1.25
DG	3R3	3.3	$\pm$ 30	1kHz	105	1.00
DH	3R9	3.9	$\pm$ 30	1kHz	135	0.90
DJ	4R7	4.7	$\pm$ 30	1kHz	155	0.85
DK	5R6	5.6	$\pm$ 30	1kHz	170	0.80
DL	6R8	6.8	$\pm$ 30	1kHz	210	0.70
DM	8R2	8.2	$\pm$ 30	1kHz	245	0.60
EA	100	10	$\pm$ 20	1kHz	280	0.55
EB	120	12	$\pm$ 20	1kHz	400	0.50
EC	150	15	$\pm$ 20	1kHz	460	0.45
ED	180	18	$\pm$ 20	1kHz	620	0.42
EE	220	22	$\pm$ 20	1kHz	670	0.38
EF	270	27	$\pm$ 20	1kHz	750	0.35
EG	330	33	$\pm$ 20	1kHz	1050	0.31
EH	390	39	$\pm$ 20	1kHz	1200	0.28
EJ	470	47	$\pm$ 20	1kHz	1300	0.26

**C3-P1.5R**

Item	Stamp	Inductance ( $\mu$ H)	Inductance		DCR (m $\Omega$ ) typ.	DC Current (A) Inductance -30% typ. A
			Tolerance (%)	Test Freq (kHz)		
DC	1R5	1.5	$\pm$ 30	1kHz	58	2.40
DD	1R8	1.8	$\pm$ 30	1kHz	65	2.20
DF	2R7	2.7	$\pm$ 30	1kHz	85	1.85
DG	3R3	3.3	$\pm$ 30	1kHz	115	1.65
DH	3R9	3.9	$\pm$ 30	1kHz	125	1.50
DJ	4R7	4.7	$\pm$ 30	1kHz	140	1.35
DK	5R6	5.6	$\pm$ 30	1kHz	150	1.20
DL	6R8	6.8	$\pm$ 30	1kHz	200	1.15
DM	8R2	8.2	$\pm$ 30	1kHz	210	0.85
EA	100	10	$\pm$ 20	1kHz	240	0.70
EB	120	12	$\pm$ 20	1kHz	280	0.63
EC	150	15	$\pm$ 20	1kHz	365	0.58
ED	180	18	$\pm$ 20	1kHz	410	0.55
EE	220	22	$\pm$ 20	1kHz	555	0.47
EF	270	27	$\pm$ 20	1kHz	620	0.45
EG	330	33	$\pm$ 20	1kHz	830	0.40
EH	390	39	$\pm$ 20	1kHz	940	0.35
EJ	470	47	$\pm$ 20	1kHz	1050	0.33

**C4-P1.5R**

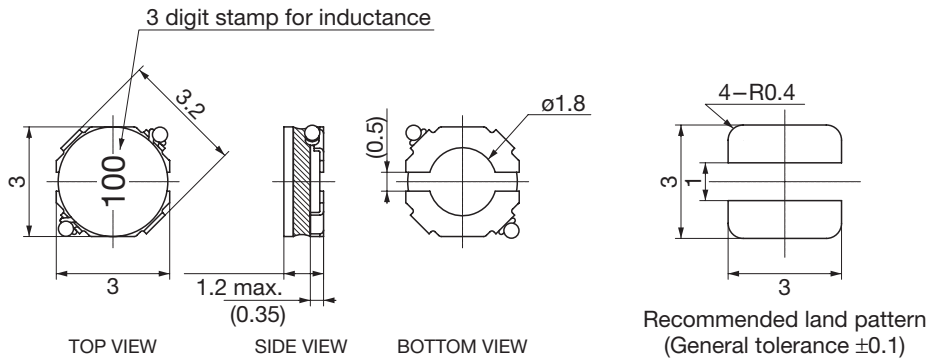
Item	Stamp	(μH)	Inductance		DCR (mΩ) typ.	DC Current (A)
			Tolerance (%)	Test Freq (kHz)		Inductance -30% typ. A
DA	1R0	1.0	±30	1kHz	45	2.85
DB	1R2	1.2	±30	1kHz	55	2.50
DD	1R8	1.8	±30	1kHz	65	2.20
DE	2R2	2.2	±30	1kHz	70	1.85
DG	3R3	3.3	±30	1kHz	80	1.75
DH	3R9	3.9	±30	1kHz	90	1.60
DJ	4R7	4.7	±30	1kHz	100	1.35
DK	5R6	5.6	±30	1kHz	130	1.20
DL	6R8	6.8	±30	1kHz	155	1.10
DM	8R2	8.2	±30	1kHz	170	1.00
EA	100	10	±20	1kHz	185	0.95
EB	120	12	±20	1kHz	265	0.80
EC	150	15	±20	1kHz	300	0.75
ED	180	18	±20	1kHz	330	0.50
EE	220	22	±20	1kHz	355	0.48
EF	270	27	±20	1kHz	465	0.45
EG	330	33	±20	1kHz	550	0.40
EH	390	39	±20	1kHz	710	0.38
EJ	470	47	±20	1kHz	850	0.35

**C4-P1.8R**

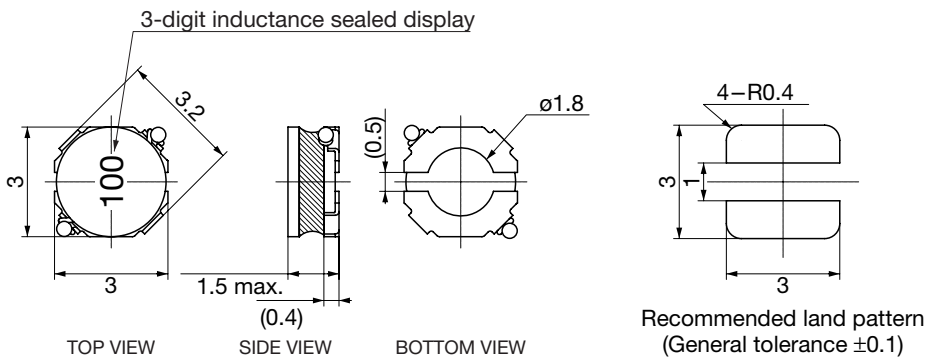
Item	Stamp	(μH)	Inductance		DCR (mΩ) typ.	DC Current (A)
			Tolerance (%)	Test Freq (kHz)		Inductance -30% typ. A
DB	1R2	1.2	±30	1kHz	40	2.70
DC	1R5	1.5	±30	1kHz	45	2.20
DD	1R8	1.8	±30	1kHz	50	2.00
DF	2R7	2.7	±30	1kHz	55	1.70
DG	3R3	3.3	±30	1kHz	65	1.60
DH	3R9	3.9	±30	1kHz	70	1.50
DJ	4R7	4.7	±30	1kHz	80	1.40
DK	5R6	5.6	±30	1kHz	85	1.25
DL	6R8	6.8	±30	1kHz	125	1.20
DM	8R2	8.2	±30	1kHz	135	1.10
EA	100	10	±20	1kHz	155	0.95
EB	120	12	±20	1kHz	185	0.90
EC	150	15	±20	1kHz	250	0.80
ED	180	18	±20	1kHz	300	0.70
EE	220	22	±20	1kHz	360	0.65
EF	270	27	±20	1kHz	395	0.60
EG	330	33	±20	1kHz	485	0.50
EH	390	39	±20	1kHz	540	0.45
EJ	470	47	±20	1kHz	630	0.43
EK	560	56	±20	1kHz	780	0.40
EL	680	68	±20	1kHz	920	0.37

**DIMENSIONS**

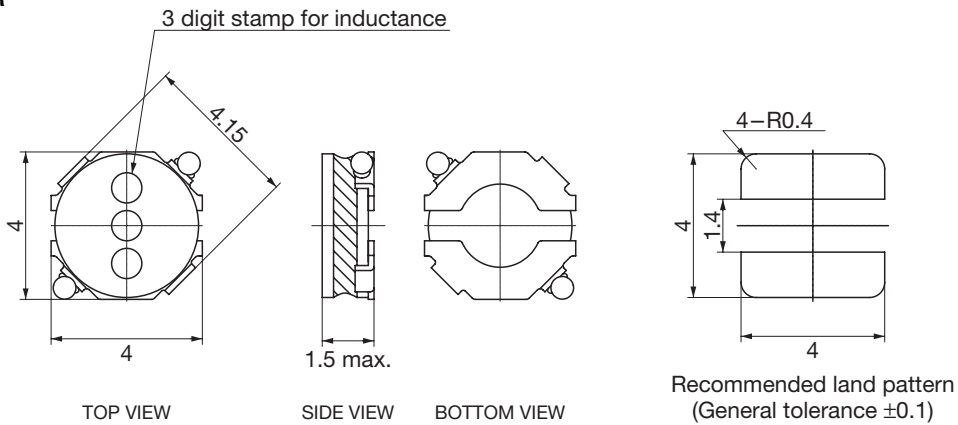
**C3-P1.2R**



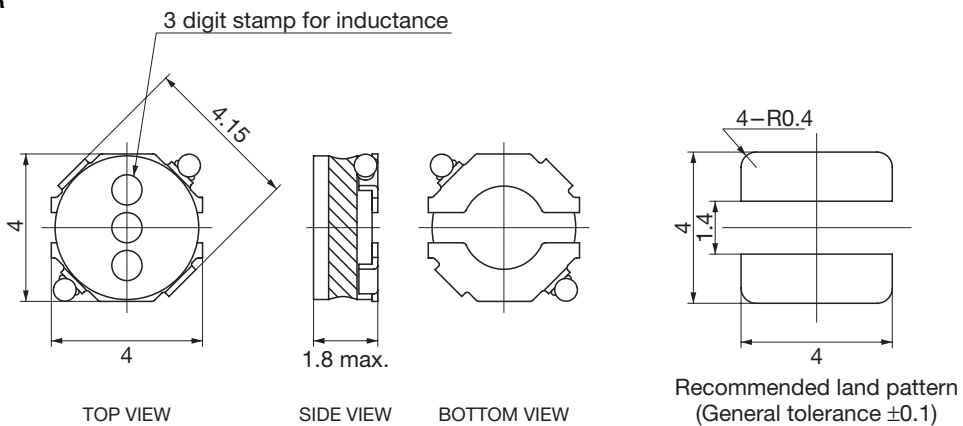
**C3-P1.5R**



**C4-P1.5R**



**C4-P1.8R**



Unit : mm  
Tolerance :  $\pm 0.2$