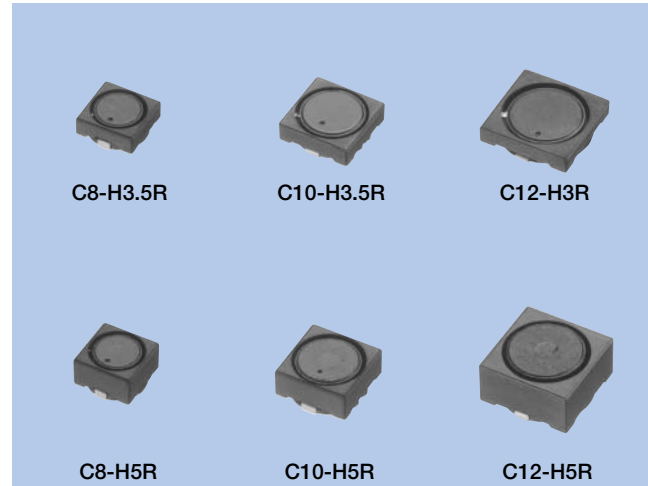


Power Inductors C8-H, C10-H, C12-H Series

OUTLINE

High current and low resistance of choke coil have been lined up for note PC and amusement equipment. This series is two ranks size down from Cxx-K series.



FEATURES

1. Ribbon wire for low DC resistance.
2. New designed structure for high current proof.
3. Small package from suitable structure using simulation.

SPECIFICATIONS

Type	Size (mm)	H length (Unit : mm)	Inductance	Operational Frequency (KHz)	Rated Current (A)	DC Resistance (mΩ)	Pcs/Reel
C8-H3.5R	8×8	3.5	1.5~10	10~500	3.2~5.5	16~65	1000
C8-H5R	8×8	5.0	1.6~10	10~500	3.1~8.0	8~24	500
C10-H3.5R	10×10	3.5	1.0~10	10~500	3.8~9.0	7.0~45	800
C10-H5R	10×10	5.0	1.0~10	10~500	4.8~12.0	3.5~20	500
C12-H3R	12.5×12.5	3.0	1.0~10	10~500	3.8~11.0	4.2~41	800
C12-H5R	12.5×12.5	5.0	1.5~10	10~500	5.5~11.0	4.7~24	500
C12-H7R	12.5×12.5	7.0	1.5~10	10~500	7.3~14.0	2.7~10	500

USES

DC/DC converter for CPU in note PC or amusement equipment.

DATA LIST (C8-H Series)

C8-H3.5R

Distinctive Name	Marking	Inductance		DC Resistance	Rated Current*	
		(μH)	Tolerance (%)	$(\text{m}\Omega)$	(A)	
				typ.	L-10% typ.	Δt 40K typ.
DD	1R5	1.5	± 30	16	5.5	6.8
DF	2R2	2.2	± 30	24	5.2	6.5
DG	3R3	3.3	± 30	27	4.9	4.5
DJ	4R7	4.7	± 30	35	4.0	4.0
DK	6R2	6.2	± 30	40	3.7	3.7
DM	7R9	7.9	± 30	52	3.5	3.4
EA	100	10.0	± 20	65	3.2	3.2

C8-H5R

Distinctive Name	Marking	Inductance		DC Resistance	Rated Current*	
		(μH)	Tolerance (%)	$(\text{m}\Omega)$	(A)	
				typ.	L-10% typ.	Δt 40K typ.
DC	1R6	1.6	± 30	8	8.0	7.5
DF	2R7	2.7	± 30	10	6.5	6.5
DH	3R7	3.7	± 30	11	5.5	6.0
DJ	4R7	4.7	± 30	14	4.7	5.5
DK	5R6	5.6	± 30	16	4.2	5.0
DL	6R8	6.8	± 30	21	3.7	4.3
EA	100	10.0	± 20	24	3.1	4.0

DATA LIST (C10-H Series)

C10-H3.5R

Distinctive Name	Marking	Inductance		DC Resistance	Rated Current*	
		(μH)	Tolerance (%)	(mΩ)	(A)	
				typ.	L-10% typ.	Δt 40K typ.
DA	1R0	1.0	±30	7.0	9.0	9.0
DC	1R5	1.5	±30	9.0	8.0	8.2
DE	2R2	2.2	±30	11.2	7.5	8.0
DG	3R3	3.3	±30	14.4	5.7	6.3
DJ	4R7	4.7	±30	25.0	5.3	5.9
DK	5R6	5.6	±30	36.0	5.0	5.8
DL	7R3	7.3	±30	34.0	4.6	5.7
DM	8R9	8.9	±30	38.0	4.5	5.5
EA	100	10.0	±20	45.0	3.8	5.0

C10-H5R

Distinctive Name	Marking	Inductance		DC Resistance	Rated Current*	
		(μH)	Tolerance (%)	(mΩ)	(A)	
				typ.	L-10% typ.	Δt 40K typ.
DA	1R0	1.0	±30	3.5	12.0	9.5
DD	1R8	1.8	±30	5.0	9.0	9.0
DF	2R7	2.7	±30	7.0	8.5	8.5
DG	3R3	3.3	±30	7.9	7.5	7.5
DJ	4R7	4.7	±30	11.0	6.5	6.5
DL	6R8	6.8	±30	17.0	5.5	6.0
DM	8R2	8.2	±30	19.0	5.0	5.5
EA	100	10.0	±20	20.0	4.8	5.0

DATA LIST (C12-H Series)

C12-H3R

Distinctive Name	Marking	Inductance		DC Resistance	Rated Current*	
		(μH)	Tolerance (%)	(mΩ)	(A)	
				typ.	L-10% typ.	Δt 40K typ.
DA	1R0	1.0	±30	4.2	11.0	12.0
DD	1R8	1.8	±30	7.4	9.2	10.5
DF	2R7	2.7	±30	9.8	7.0	7.5
DH	3R9	3.9	±30	15.0	5.7	6.2
DJ	4R7	4.7	±30	23.0	4.7	6.0
DL	6R8	6.8	±30	32.0	4.3	4.8
DM	8R1	8.1	±30	35.0	4.0	4.5
EA	100	10.0	±20	41.0	3.8	4.2

C12-H5R

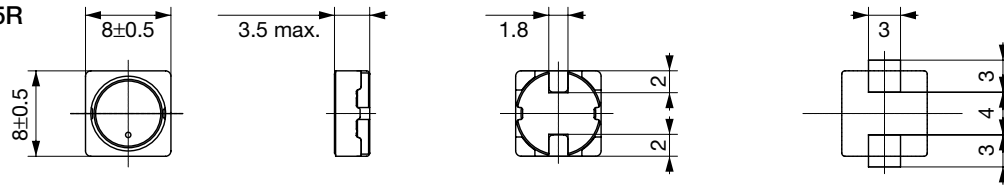
Distinctive Name	Marking	Inductance		DC Resistance	Rated Current*	
		(μH)	Tolerance (%)	(mΩ)	(A)	
				typ.	L-10% typ.	Δt 40K typ.
DC	1R5	1.5	±30	4.7	11.0	12.0
DE	2R4	2.4	±30	7.0	9.5	11.0
DG	3R3	3.3	±30	8.0	8.0	9.5
DJ	5R1	5.1	±30	13.0	7.5	9.0
DL	6R5	6.5	±30	15.0	7.0	8.5
DM	8R6	8.6	±30	19.0	6.5	7.5
EA	100	10.0	±20	24.0	5.5	6.0

C12-H7R

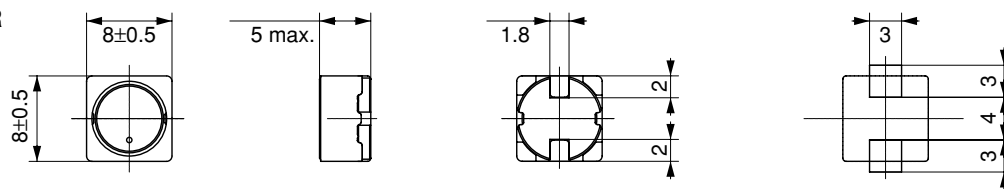
Distinctive Name	Marking	Inductance		DC Resistance	Rated Current*	
		(μH)	Tolerance (%)	(mΩ)	(A)	
				typ.	L-10% typ.	Δt 40K typ.
DD	1R5	1.5	±30	2.7	14.0	16.5
DE	2R2	2.2	±30	3.6	12.8	14.5
DF	2R7	2.7	±30	3.9	10.5	14.0
DJ	4R7	4.7	±30	5.7	9.7	13.5
DK	5R6	5.6	±30	6.3	8.5	12.5
DM	8R2	8.2	±30	6.8	8.1	10.9
EA	100	10.0	±20	10.0	7.3	8.0

DIMENSIONS

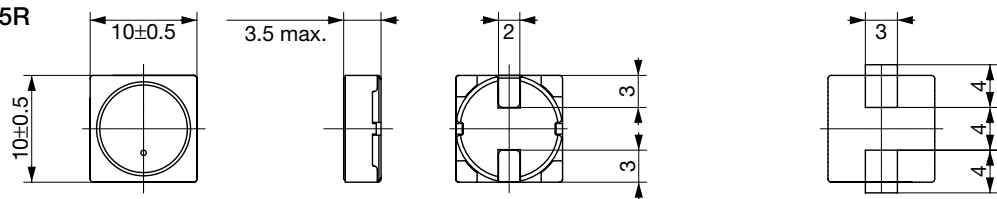
C8-H3.5R



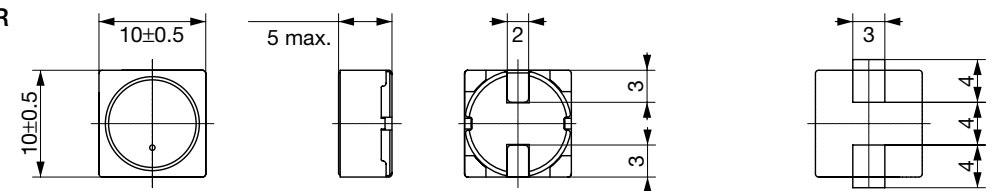
C8-H5R



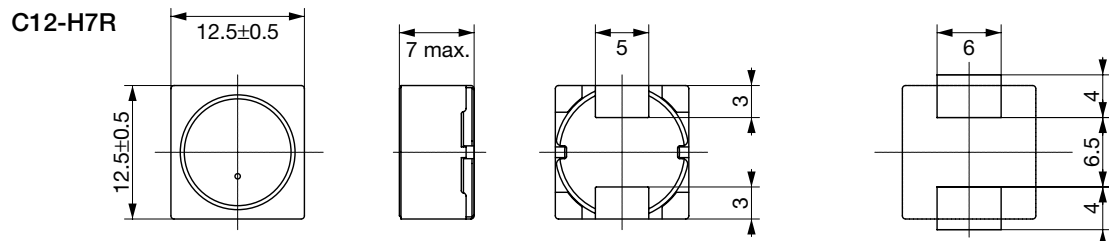
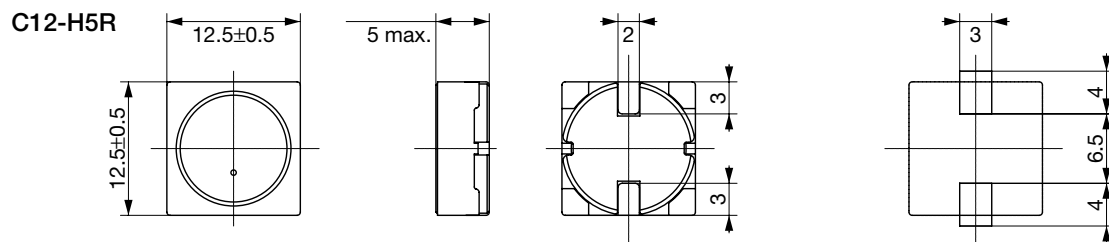
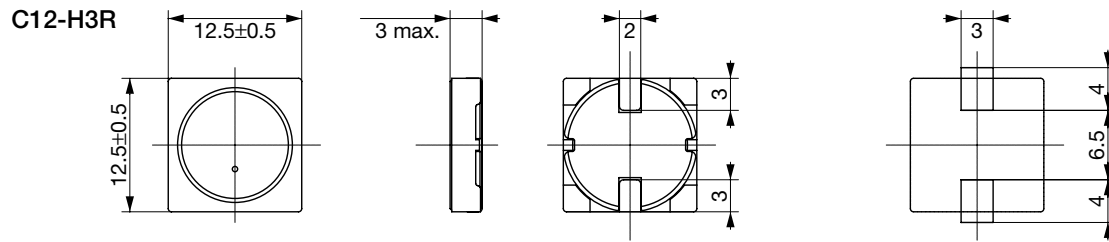
C10-H3.5R



C10-H5R



Recommended land pattern of PWB
Unit : mm



Recommended land pattern of PWB
Unit : mm