SMD TYPE
Double Flat Winding Inductors

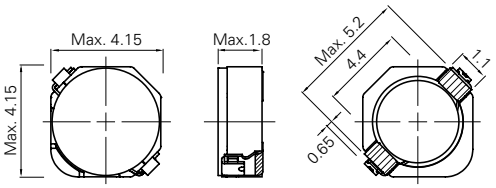
OUTLINE

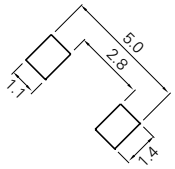
Low resistance and effective winding was realized by using the flat-wire.

CDRH4D16FB

DIMENSIONS (mm)	LAND PATTERNS (mm)	CONSTRUCTION

(1.3µH - 22µH)

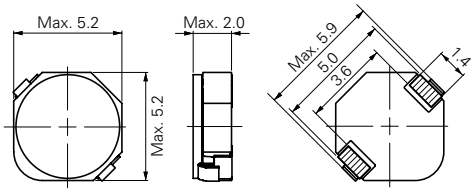


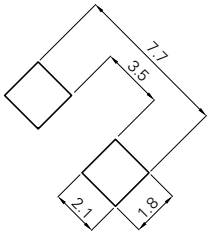


CDPH4D19F

DIMENSIONS (mm)	LAND PATTERNS (mm)	CONSTRUCTION

(3.3µH - 47µH)

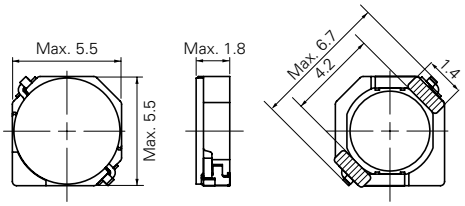


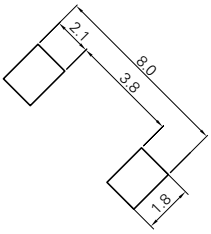


CDRH5D16F/LD

DIMENSIONS (mm)	LAND PATTERNS (mm)	CONSTRUCTION

(2.2µH - 47µH)

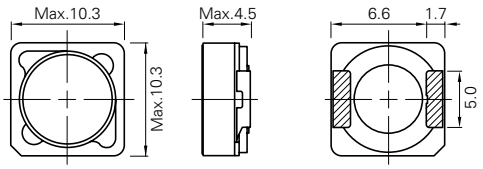


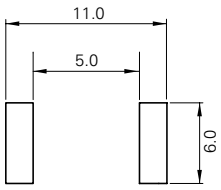


CDRH10D43FB

DIMENSIONS (mm)	LAND PATTERNS (mm)	CONSTRUCTION

(4.7µH - 33µH)





TYPE : CDRH4D16FB, CDPH4D19F, CDRH5D16F/LD, CDRH10D43FB

Parts No.	L (H)	CDRH4D16FB				CDPH4D19F			CDRH5D16F/LD			CDRH10D43FB			
		D.C.R.(Ω) : Max.(Typ.)	Saturation Current(A) *A		Temperature Rise(Typ.) (A) *D	D.C.R.(Ω) : Max.(Typ.)	Saturation Rated Current (A) *B	Temperature Rise Current (A) *D	D.C.R.(Ω) : Max.(Typ.)	Saturation Rated Current (A) *B	Temperature Rise Current (A) *D	D.C.R.(Ω) : Max.(Typ.)	Saturation Rated Current (A) *C		Temperature Rise Current (A) *D
			20℃	100℃									20℃	100℃	
1R3	1.3μ	29.3m(22.5m)	2.30	1.50	2.80										
1R8	1.8μ	34.5m(27.6m)	1.90	1.30	2.70										
2R2	2.2μ								27.0m(22.5m)	1.80	3.80				
2R4	2.4μ	37.9m(30.3m)	1.70	1.20	2.60										
2R9	2.9μ								32.0m(26.7m)	1.60	3.60				
3R0	3.0μ	39.6m(31.7m)	1.50	1.10	2.40										
3R3	3.3μ					33m(26m)	1.50	3.80							
3R9	3.9μ	56.7m(43.6m)	1.35	1.00	2.10										
4R7	4.7μ	58.5m(46.8m)	1.20	900m	2.00	38m(30m)	1.15	3.30	37.0m(31.0m)	1.20	2.90	15.8m(13.2m)	6.30	5.60	5.70
5R6	5.6μ											21.0m(17.2m)	5.70	5.20	5.00
6R8	6.8μ	81.3m(65.0m)	1.00	750m	1.50	50m(40m)	1.00	3.02	50.0m(42.0m)	1.05	2.40	23.3m(19.6m)	5.10	4.50	4.70
8R0	8.0μ					56m(45m)	900m	2.68							
8R2	8.2μ											28.4m(23.8m)	4.80	4.20	4.40
8R5	8.5μ	129m(103m)	900m	650m	1.30										
100	10μ	136m(109m)	800m	600m	1.20	65m(52m)	800m	2.32	78.6m(65.5m)	920m	1.90	32.0m(26.5m)	4.30	3.70	4.20
120	12μ											39.6m(33.3m)	3.80	3.40	3.50
150	15μ	196m(157m)	650m	500m	1.00	95m(75m)	660m	1.88	110m(92m)	700m	1.50	49.1m(41.2m)	3.50	3.10	3.10
220	22μ	333m(267m)	520m	400m	0.75	135m(108m)	540m	1.44	168m(140m)	610m	1.20	70.2m(58.7m)	3.00	2.70	2.70
270	27μ											94.6m(79.0m)	2.60	2.20	2.30
330	33μ					200m(160m)	430m	1.25	267m(223m)	500m	900m	107m(90.0m)	2.40	2.00	2.10
470	47μ					293m(234m)	360m	1.03	363m(303m)	400m	820m				

Measuring Freq. (L)

CDRH4D16FB	100kHz
CDPH4D19F	100kHz
CDRH5D16F/LD	100kHz
CDRH10D43FB	100kHz

Tolerance of Inductance

CDRH4D16FB	1.3μH – 8.5μH ± 25% (N), 10μH – 22μH ± 20% (M)
CDPH4D19F	3.3μH – 47μH ± 20% (M)
CDRH5D16F/LD	2.2μH – 47μH ± 25% (N)
CDRH10D43FB	4.7μH – 33μH ± 20% (M)

Other

*A Saturation Current : This indicates the value of D.C. current when the inductance decreases to 65% of it's nominal. ( ) typical value.
*B Saturation Rated Current : The current when the inductance becomes 35% lower than its nominal value.(Ta=20˚C)
*C Saturation Rated Current : The current when the inductance becomes 25% lower than its nominal value.(Ta=20 ˚C)
*D Temperature Rise Current : The actual current when temperature of coil becomes ΔT=40˚C. (Ta=20˚C)

About Lead-free products

・Lead-free products are now available for sale
・To order a lead-free product, please add " NP " after the product type
e.g. Ordering code of lead product : Type name-△△△○×
Ordering code of lead-free product : Type name NP △△△○×

Ordering Code

CDRH4D16FB - △△△○×

△ : Parts No.
○ : Tolerance of inductance — M (20%), N (25%)
× : Packing — C (Carrier tape), B (Box)