

POWER INDUCTORS <SMD Type>

CDEP Series

OUTLINE

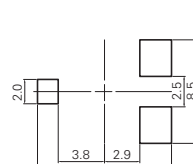
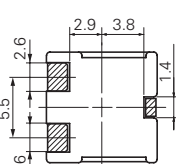
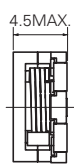
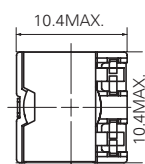
By using the square wire, power inductors can be used for large currents with low profile and low resistance.

SHIELDED TYPE

CDEP104



(0.22μH - 4.3μH)



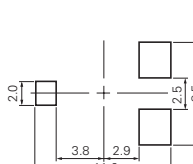
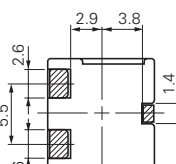
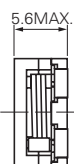
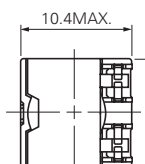
BOTTOM VIEW



CDEP105



(0.15μH - 8.8μH)



BOTTOM VIEW



POWER INDUCTORS <SMD Type> CDEP Series

OUTLINE

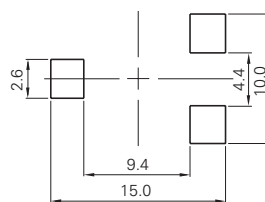
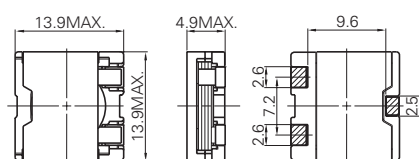
By using the square wire, power inductors can be used for large currents with low profile and low resistance.

SHIELDED TYPE

CDEP134



(0.3μH - 8.0μH)



CONNECTION



BOTTOM VIEW

CONSTRUCTION

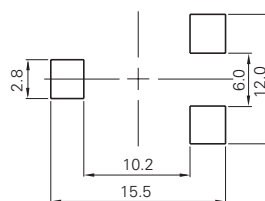
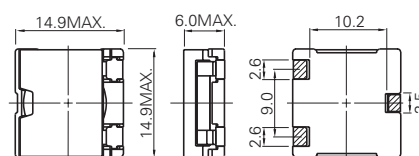


CDEP145

NEW



(0.56μH - 6.1μH)



CONNECTION



BOTTOM VIEW

CONSTRUCTION



TYPE : CDEP134 (Standard Type), CDEP134 (High Power Type)

Parts No.	L (H)	CDEP134 (Standard Type)				CDEP134 (High Power Type)			
		D.C.R.(Ω) : Max.(Typ.)	Saturation Rated Current (A) *E		Temperature Rise Current (Typ.) (A) *IV	D.C.R.(Ω) : Max.(Typ.)	Saturation Rated Current (A) *E		Temperature Rise Current (Typ.) (A) *IV
			20℃	100℃			20℃	100℃	
0R3	0.3μ					1.9m(1.6m)	35.0	32.0	18.5
0R4	0.4μ	1.9m(1.6m)	32.0	27.0	18.5				
0R6	0.66μ					2.5m(2.1m)	29.6	24.0	17.0
0R9	0.9μ	2.5m(2.1m)	21.6	18.4	17.0				
1R2	1.2μ					3.7m(3.1m)	21.0	17.6	15.0
1R6	1.6μ	3.7m(3.1m)	16.0	13.8	15.0				
1R8	1.8μ					6.6m(5.5m)	17.6	14.4	10.5
2R5	2.5μ	6.6m(5.5m)	12.8	11.0	10.5				
2R7	2.7μ					10.8m(9.0m)	14.7	12.0	8.0
3R6	3.6μ	10.8m(9.0m)	10.9	9.1	8.0	12.0m(10.0m)	12.5	10.2	7.5
4R8	4.8μ	12.0m(10.0m)	9.3	8.0	7.5	16.3m(13.6m)	11.0	9.0	7.0
6R0	6.0μ					18.4m(15.3m)	9.6	8.0	6.5
6R4	6.4μ	16.3m(13.6m)	8.0	6.8	7.0				
8R0	8.0μ	18.4m(15.3m)	7.2	6.1	6.5				

Measuring Freq. (L)

CDEP134(S) 100kHz

CDEP134(H) 100kHz

Tolerance of Inductance

CDEP134(S) 0.4μH ± 30% (N), 0.9μH – 8.0μH ± 20% (M)

CDEP134(H) 0.3μH – 0.66μH ± 30% (N), 1.2μH – 6.0μH ± 20% (M)

Other

*E Saturation Rated Current : The current either the inductance value becomes 35% (tolerance ± 30%) lower than its nominal value or becomes 25% (tolerance ± 20%) lower than its nominal value. (Ta=20 °C)

*IV Temperature Rise Current (Typ.) : 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. lead product: Type name-△△△○×

lead-free product: Type name NP △△△○×

Ordering Code

CDEP134 - △△△○× - □□

△ : Parts No. ○ : Tolerance of inductance × : Packing □ :

M (20%) C (Carrier tape) Nothing (Standard type)

N (30%) B (Box) H (High power type)

TYPE : CDEP145 (Standard Type), CDEP145 (High Power Type)

Parts No.	L (H)	CDEP145 (Standard Type)				CDEP145 (High Power Type)			
		D.C.R.(Ω) : Max.(Typ.)	Saturation Rated Current (A) *B		Temperature Rise Current (Typ.) (A) *IV	D.C.R.(Ω) : Max.(Typ.)	Saturation Rated Current (A) *B		Temperature Rise Current (Typ.) (A) *IV
			20℃	100℃			20℃	100℃	
0R5	0.56μ					1.7m(1.4m)	36.0	31.2	23.0
0R6	0.68μ	1.7m(1.4m)	30.0	25.6	23.0				
1R2	1.2μ					3.0m(2.5m)	25.0	20.8	19.5
1R5	1.5μ	3.0m(2.5m)	19.8	17.0	19.5				
2R2	2.2μ					4.6m(3.8m)	19.2	16.0	15.0
2R7	2.7μ	4.6m(3.8m)	15.2	13.0	15.0				
3R5	3.5μ					7.4m(6.2m)	15.4	13.0	12.0
4R2	4.2μ	7.4m(6.2m)	12.3	10.6	12.0				
5R0	5.0μ					10.8m(9.0m)	13.1	10.8	9.5
6R1	6.1μ	10.8m(9.0m)	10.4	8.8	9.5				

Measuring Freq. (L)

CDEP145(S) 100kHz

CDEP145(H) 100kHz

Tolerance of Inductance

CDEP145(S) 0.68μH – 6.1μH ± 20% (M)

CDEP145(H) 0.56μH – 5.0μH ± 20% (M)

Other

*B Saturation Rated Current : The current when the inductance becomes 25% lower than its nominal value. (Ta=20 °C)

*IV Temperature Rise Current (Typ.) : The actual current when temperature of coil becomes ΔT=40 °C. (Ta=20 °C)

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lead-free product: Type name NP △△△○×

Ordering Code

CDEP145 - △△△○× - □□

△ : Parts No. ○ : Tolerance of inductance × : Packing □ :

M (20%) C (Carrier tape) Nothing (Standard type)

N (30%) B (Box) H (High power type)