

# SMD TYPE CMD Series

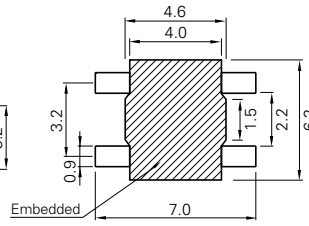
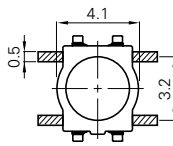
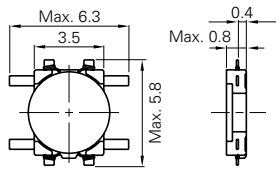
## OUTLINE

SMD type small size inductors.

### CMD4D06



(2.2μH - 47μH)



\* In order to embedded type, a substrate is drilled.

CONNECTION



BOTTOM VIEW

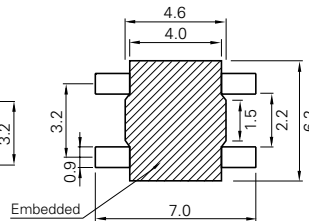
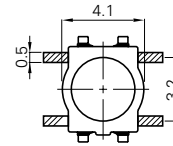
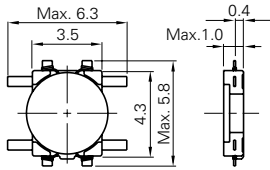
CONSTRUCTION



### CMD4D08



(3.3μH - 100μH)



\* In order to embedded type, a substrate is drilled.

CONNECTION



BOTTOM VIEW

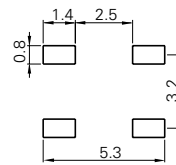
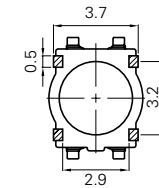
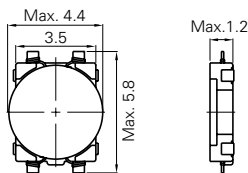
CONSTRUCTION



### CMD4D11



(2.2μH - 47μH)



CONNECTION



BOTTOM VIEW

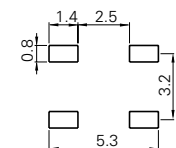
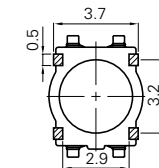
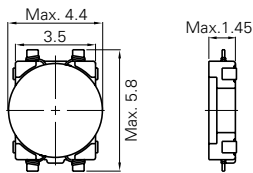
CONSTRUCTION



### CMD4D13



(3.3μH - 150μH)



CONNECTION



BOTTOM VIEW

CONSTRUCTION



## TYPE : CMD4D06, CMD4D08, CMD4D11, CMD4D13

Parts No.	L (H)	CMD4D06		CMD4D08			CMD4D11		CMD4D13		
		D.C.R.(Ω) : Max.(Typ.)	Rated Current (A) *1	D.C.R.(Ω) : Max.(Typ.)	Saturation Rated Current (A) *A	Temperature Rise Rated Current (A) *B	D.C.R.(Ω) : Max.(Typ.)	Rated Current (A) *1	D.C.R.(Ω) : Max.(Typ.)	Saturation Rated Current (A) *A	Temperature Rise Rated Current (A) *B
2R2	2.2μ	116m(89m)	950m				116m(89m)	950m			
3R3	3.3μ	174m(134m)	770m	160m(123m)	1.20	850m	174m(134m)	770m	160m(123m)	1.20	850m
4R7	4.7μ	216m(166m)	750m	194m(149m)	1.00	800m	216m(166m)	750m	194m(149m)	1.00	800m
6R8	6.8μ	296m(228m)	620m	276m(212m)	810m	650m	296m(228m)	620m	276m(212m)	810m	650m
100	10μ	457m(352m)	500m	335m(258m)	710m	570m	457m(352m)	500m	335m(258m)	710m	570m
150	15μ	676m(520m)	400m	508m(391m)	580m	450m	676m(520m)	400m	508m(391m)	580m	450m
220	22μ	1.07(820m)	300m	766m(589m)	480m	370m	1.07(820m)	300m	766m(589m)	480m	370m
330	33μ	1.65(1.27)	240m	1.16(894m)	370m	280m	1.65(1.27)	240m	1.16(894m)	370m	280m
470	47μ	2.84(2.19)	180m	1.66(1.33)	320m	220m	2.84(2.19)	180m	1.66(1.33)	320m	220m
680	68μ			2.53(2.03)	260m	180m			2.53(2.03)	260m	180m
101	100μ			3.30(2.64)	210m	170m			3.30(2.64)	210m	170m
151	150μ								5.36(4.29)	180m	130m

## Measuring Freq. (L)

CMD4D06	100kHz
CMD4D08	100kHz
CMD4D11	100kHz
CMD4D13	100kHz

## Tolerance of Inductance

CMD4D06	2.2μH – 47μH ± 20% (M)
CMD4D08	3.3μH – 100μH ± 20% (M)
CMD4D11	2.2μH – 47μH ± 20% (M)
CMD4D13	3.3μH – 150μH ± 20% (M)

## Rated Current

\*1 It is either the inductance is 10% lower than its initial value in D.C. saturation characteristics or temperature raise becomes  $\Delta T=40^{\circ}\text{C}$  ( $T_a=20^{\circ}\text{C}$ ), whichever is lower.

## Other

\*A Saturation Rated Current : The current when the inductance becomes 10% lower than its initial value. ( $T_a=20^{\circ}\text{C}$ )  
 \*B Temperature Rise Rated Current : The current when temperature of coil increases up to  $\text{Max.}\Delta T=40^{\circ}\text{C}$ . ( $T_a=20^{\circ}\text{C}$ )

## 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- $\Delta\Delta\Delta\Delta\times$   
 Ordering code of lead-free product : Type name NP  $\Delta\Delta\Delta\Delta\times$

## Ordering Code

CMD4D06 - $\Delta\Delta\Delta\Delta\times$
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$\Delta$  : Parts No.     $\circ$  : Tolerance of inductance     $\times$  : Packing  
 M (20%)    C (Carrier tape)  
 B (Box)

# CMD5D11

DIMENSIONS (mm)	LAND PATTERNS (mm)	CONNECTION	CONSTRUCTION
		<p>(2)-(3) and (1)-(4) must be shorted when use.</p>	<b>I</b>
BOTTOM VIEW			



# CMD5D13

DIMENSIONS (mm)	LAND PATTERNS (mm)	CONNECTION	CONSTRUCTION
		<p>(2)-(3) and (1)-(4) must be shorted when use.</p>	<b>I</b>
BOTTOM VIEW			



# CMD6D11B

DIMENSIONS (mm)	LAND PATTERNS (mm)	CONNECTION	CONSTRUCTION
			<b>I</b>
BOTTOM VIEW			



