

# Power Inductor CDH25D09,CDH25D11



## ■ Features

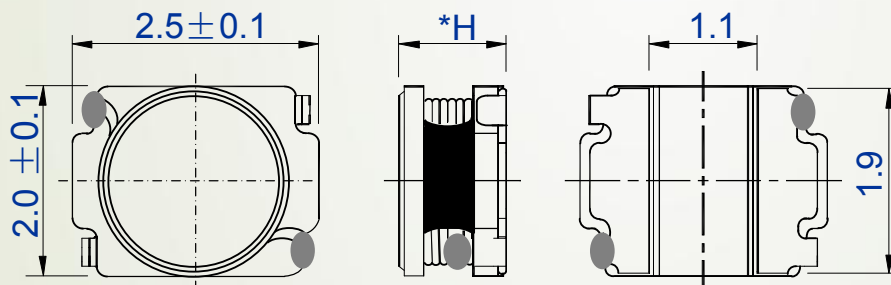
- ⊙ Magnetically unshielded construction.
- ⊙ Land pattern is compatible to Chip 2520 size.
- ⊙ Storage temperature range:  $-40^{\circ}\text{C}\sim+105^{\circ}\text{C}$ .
- ⊙ Operating temperature range:  $-40^{\circ}\text{C}\sim+105^{\circ}\text{C}$  (including coil's self-heat).
- ⊙ RoHS Compliance.

## ■ Applications

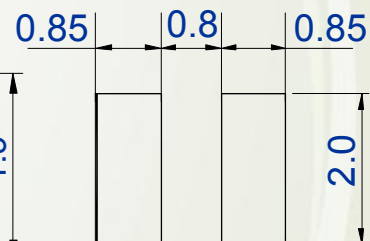
Ideally used in Mobile phone, PDA, MP3, DSC/DVC, HDD, etc as converter inductor.

## ■ Shapes and Dimensions/Recommended Land Patterns(mm)

### ◆ Dimensions (mm)



### ◆ Land pattern



**\*H CDH25D09: 1.0mm Max;  
CDH25D11: 1.2mm Max.**

# Power Inductor CDH25D09,CDH25D11



## ■ Electrical Characteristics specification.

### ◆ CDH25D09

Sumida P/N	Inductance ( $\mu$ H) at 1MHz	D.C.R. Max.(Typ.) ( $\Omega$ )	Saturation Current (A) ※1	Temperature Rise Current (A) ※2
CDH25D09HF-R47NC	$0.47 \pm 30\%$	0.069(0.055)	2.08(2.60)	1.69(1.90)
CDH25D09HF-R68NC	$0.68 \pm 30\%$	0.083(0.066)	1.82(2.28)	1.52(1.72)
CDH25D09HF-1R0NC	$1.0 \pm 30\%$	0.115(0.092)	1.58(1.98)	1.33(1.50)
CDH25D09HF-1R5NC	$1.5 \pm 30\%$	0.183(0.146)	1.26(1.57)	0.89(1.00)
CDH25D09HF-2R2MC	$2.2 \pm 20\%$	0.279(0.223)	1.04(1.30)	0.75(0.85)
CDH25D09HF-3R3MC	$3.3 \pm 20\%$	0.361(0.289)	0.85(1.06)	0.71(0.81)
CDH25D09HF-4R7MC	$4.7 \pm 20\%$	0.491(0.393)	0.70(0.87)	0.58(0.65)
CDH25D09HF-6R8MC	$6.8 \pm 20\%$	0.735(0.588)	0.58(0.72)	0.47(0.53)
CDH25D09HF-100MC	$10.0 \pm 20\%$	1.03 (0.821)	0.47(0.59)	0.39(0.45)

# Power Inductor CDH25D09,CDH25D11



## ■Electrical Characteristics specification.

### ◆ CDH25D11

Sumida P/N	Inductance ( $\mu$ H) at 1MHz	D.C.R. Max.(Typ.) ( $\Omega$ )	Saturation Current (A) ※1	Temperature Rise Current (A) ※2
CDH25D11HF-R47NC	0.47 $\pm$ 30%	68.9m(55.1m)	3.05(3.81)	1.80(2.00)
CDH25D11HF-1R0NC	1.0 $\pm$ 30%	0.108(86.4m)	2.20(2.75)	1.40(1.58)
CDH25D11HF-1R5NC	1.5 $\pm$ 30%	0.165(0.132)	1.78(2.23)	1.15(1.30)
CDH25D11HF-2R2MC	2.2 $\pm$ 20%	0.195(0.156)	1.39(1.74)	1.02(1.15)
CDH25D11HF-3R3MC	3.3 $\pm$ 20%	0.301(0.241)	1.14(1.42)	0.80(0.89)
CDH25D11HF-4R7MC	4.7 $\pm$ 20%	0.468(0.374)	0.98(1.22)	0.60(0.67)
CDH25D11HF-6R8MC	6.8 $\pm$ 20%	0.730(0.584)	0.82(1.02)	0.48(0.55)
CDH25D11HF-100MC	10.0 $\pm$ 20%	0.983(0.786)	0.68(0.85)	0.44(0.52)

※1、 Saturation Current: This indicates the value of D.C. current when the inductance decreases to 70% of its nominal value.

※2、 Temperature Rise Current: The actual current when temperature of coil becomes  $\Delta T=40^{\circ}\text{C}$ . ( $T_a=20^{\circ}\text{C}$ )

### For More Information

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