

Power Inductor CDH25D09,CDH25D11



■ Features

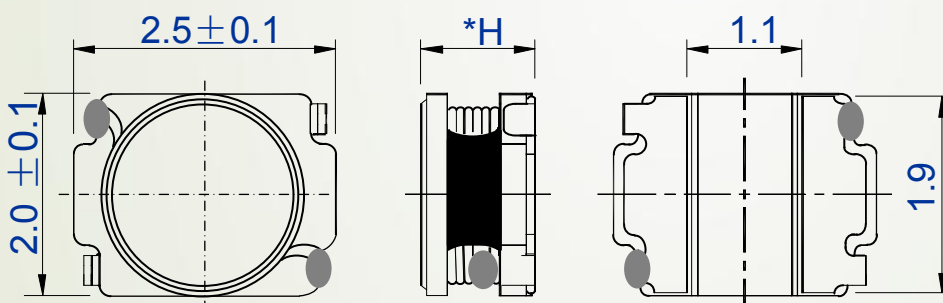
- ◎ Magnetically unshielded construction.
- ◎ Land pattern is compatible to Chip 2520 size.
- ◎ Storage temperature range:-40°C~+105°C.
- ◎ Operating temperature range:-40°C~+105°C(including coil's self-heat).
- ◎ RoHS Compliance.

■ Applications

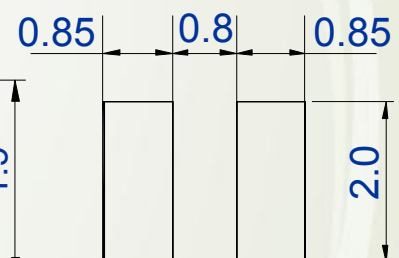
Ideally used in Mobile phone,PDA,MP3,DSC/DVC,HDD,etc as converter inductor.

■ Shapes and Dimensions/Recommended Land Patterns(mm)

◆ Dimensions (mm)



◆ Land pattern



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

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■Electrical Characteristics specification.

◆ CDH25D09

Sumida P/N	Inductance (μ H) at 1MHz	D.C.R. Max.(Typ.) (Ω)	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)

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■Electrical Characteristics specification.

◆ CDH25D11

Sumida P/N	Inductance (μ H) at 1MHz	D.C.R. Max.(Typ.) (Ω)	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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