

Power Inductor CDH25D09,CDH25D11



■ Features

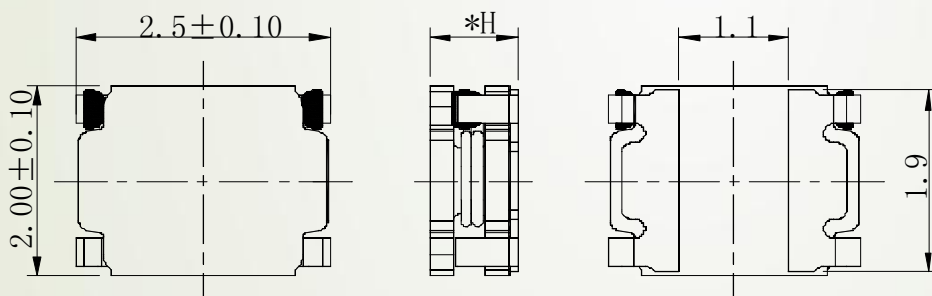
- ◎ Magnetically unshielded construction.
- ◎ Land pattern is compatible to Chip 2520 size.
- ◎ Storage temperature range:-40°C~+105°C.
- ◎ Operating temperature range:-40°C~+105°C(including coil's self-heat).
- ◎ RoHS Compliance and Halogen free.

■ 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

| Part Name | Stamp | Inductance 1MHz (μ H) | D.C.R. Max.(Typ.) (Ω) | Saturation Current (A) ※1 | Temperature Rise Current (A) ※2 |
|------------------|-------|----------------------------------|--------------------------------------|------------------------------|---------------------------------------|
| CDH25D09HF-R47NC | A | 0.47 \pm 30% | 57.4m(45.9m) | 2.47(2.90) | 2.21 |
| CDH25D09HF-R68NC | B | 0.68 \pm 30% | 70.5m(56.4m) | 2.17(2.55) | 2.06 |
| CDH25D09HF-1R0NC | C | 1.0 \pm 30% | 0.112(89.1m) | 1.65(1.94) | 1.53 |
| CDH25D09HF-1R5NC | D | 1.5 \pm 30% | 0.154(0.123) | 1.40(1.65) | 1.36 |
| CDH25D09HF-2R2MC | E | 2.2 \pm 20% | 0.233(0.186) | 1.15(1.35) | 1.13 |
| CDH25D09HF-3R3MC | F | 3.3 \pm 20% | 0.310(0.248) | 0.95(1.12) | 0.97 |
| CDH25D09HF-4R7MC | G | 4.7 \pm 20% | 0.463(0.370) | 0.78(0.92) | 0.8 |
| CDH25D09HF-6R8MC | J | 6.8 \pm 20% | 0.675(0.540) | 0.65(0.76) | 0.51 |
| CDH25D09HF-100MC | K | 10.0 \pm 20% | 0.923(0.738) | 0.54(0.63) | 0.45 |

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■Electrical Characteristics specification.

◆ CDH25D11

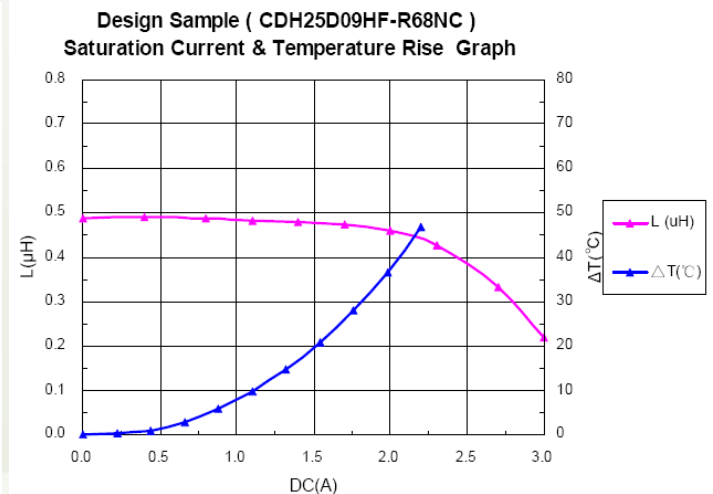
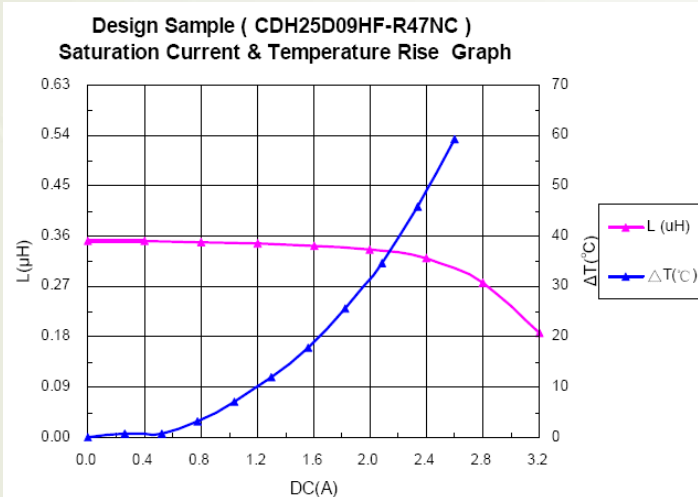
| Part Name | Stamp | Inductance 1MHz (μ H) | D.C.R. Max.(Typ.) (Ω) | Saturation Current (A) ※1 | Temperature Rise Current (A) ※2 |
|------------------|-------|----------------------------------|--------------------------------------|------------------------------|---------------------------------------|
| CDH25D11HF-R47NC | A | $0.47 \pm 30\%$ | 67m(54m) | 3.40(4.00) | 1.89 |
| CDH25D11HF-R68NC | K | $0.68 \pm 30\%$ | 95m(76m) | 2.67(3.15) | 1.58 |
| CDH25D11HF-1R0NC | B | $1.0 \pm 30\%$ | 0.106(85m) | 2.47(2.90) | 1.55 |
| CDH25D11HF-1R5NC | C | $1.5 \pm 30\%$ | 0.156(0.125) | 2.00(2.38) | 1.32 |
| CDH25D11HF-2R2MC | D | $2.2 \pm 20\%$ | 0.184(0.147) | 1.63(1.92) | 1.17 |
| CDH25D11HF-3R3MC | E | $3.3 \pm 20\%$ | 0.288(0.230) | 1.40(1.63) | 0.92 |
| CDH25D11HF-4R7MC | F | $4.7 \pm 20\%$ | 0.421(0.337) | 1.15(1.35) | 0.75 |
| CDH25D11HF-6R8MC | G | $6.8 \pm 20\%$ | 0.611(0.489) | 0.95(1.12) | 0.57 |
| CDH25D11HF-100MC | J | $10.0 \pm 20\%$ | 0.978(0.782) | 0.75(0.88) | 0.45 |

※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 $\Delta T=40^{\circ}\text{C}$.($T_a=20^{\circ}\text{C}$)

■Rated Current Curve

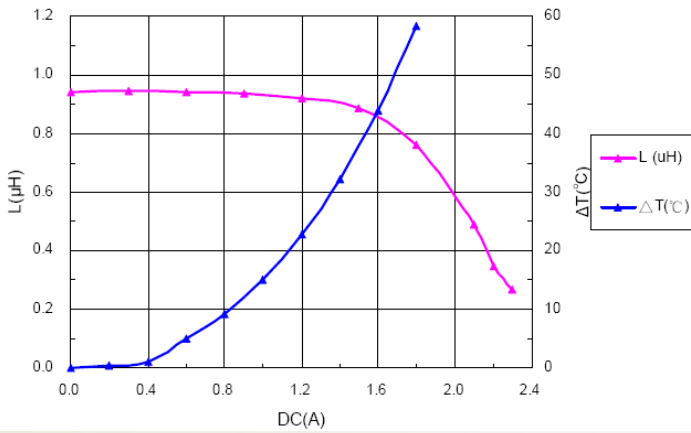
◆ CDH25D09



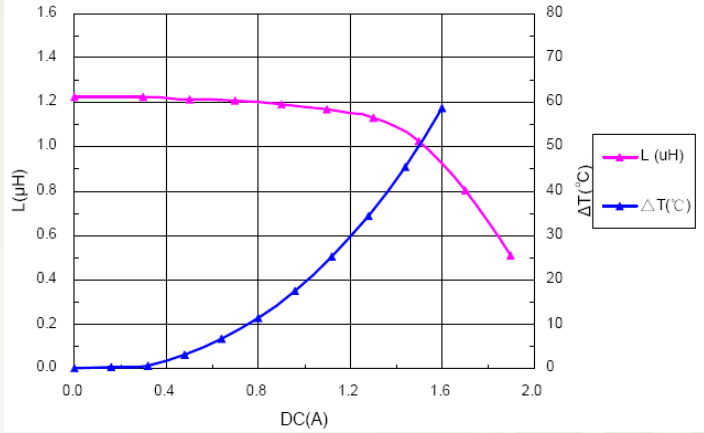
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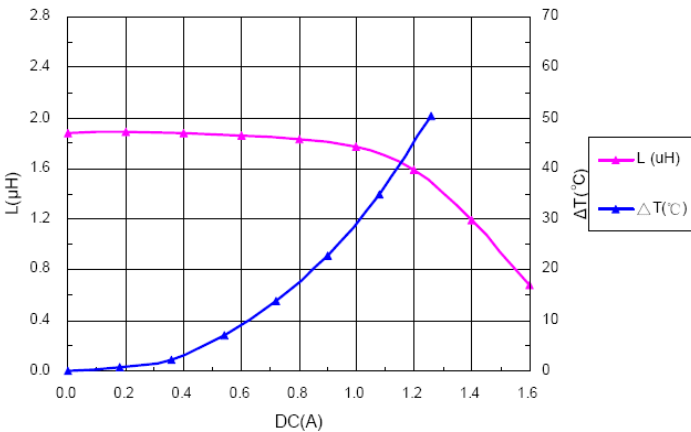
Design Sample (CDH25D09HF-1R0NC)
Saturation Current & Temperature Rise Graph



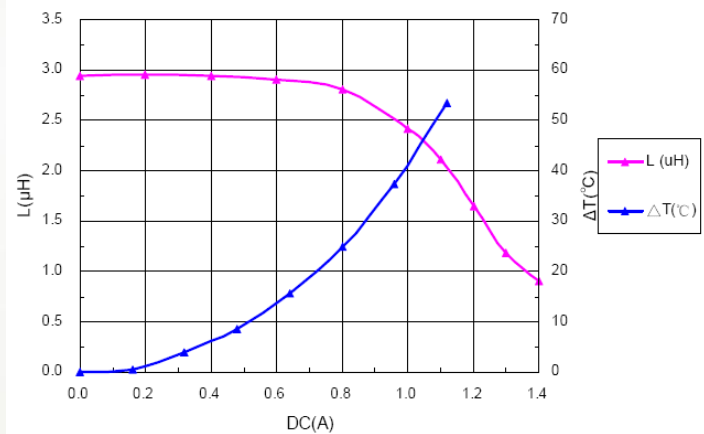
Design Sample (CDH25D09HF-1R5NC)
Saturation Current & Temperature Rise Graph



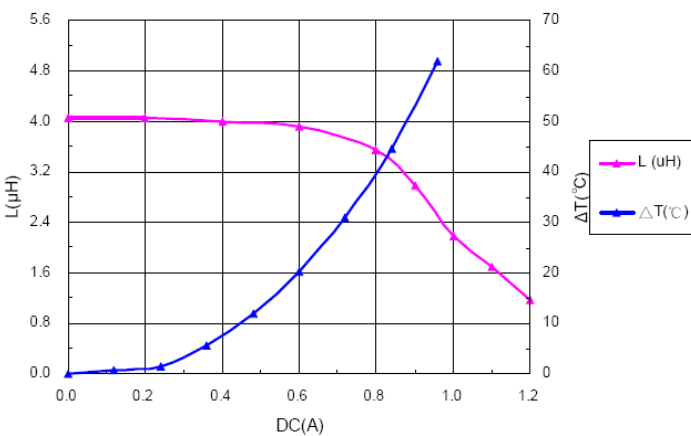
Design Sample (CDH25D09HF-2R2MC)
Saturation Current & Temperature Rise Graph



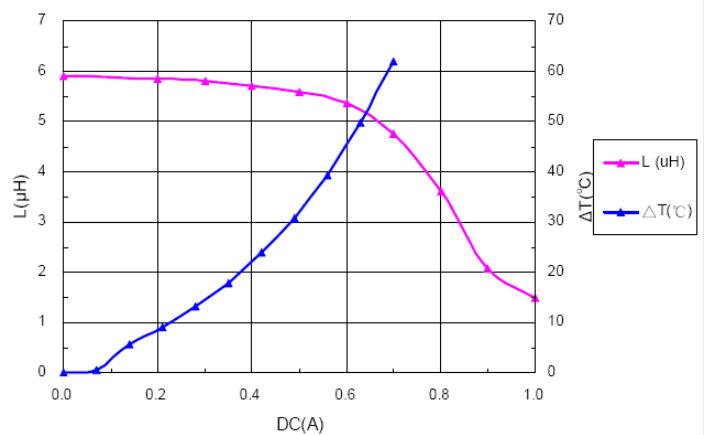
Design Sample (CDH25D09HF-3R3MC)
Saturation Current & Temperature Rise Graph



Design Sample (CDH25D09HF-4R7MC)
Saturation Current & Temperature Rise Graph



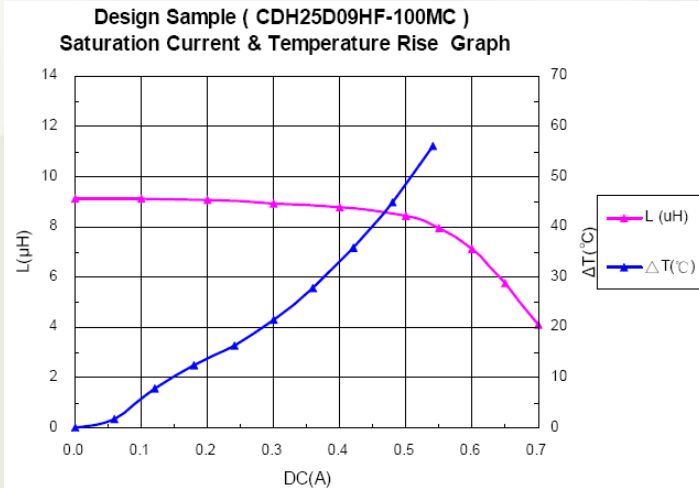
Design Sample (CDH25D09HF-6R8MC)
Saturation Current & Temperature Rise Graph



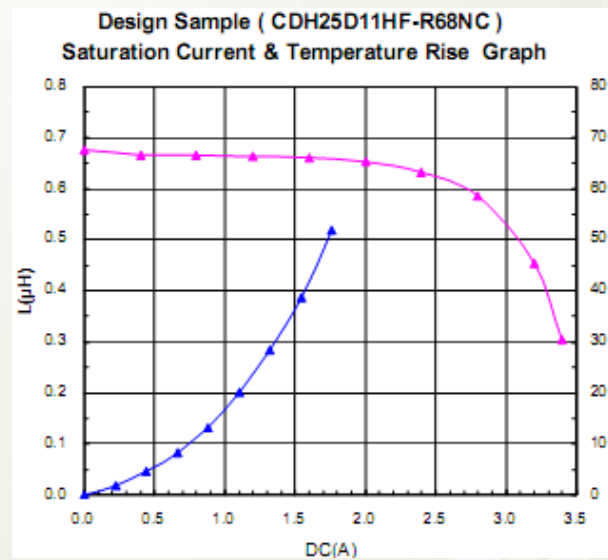
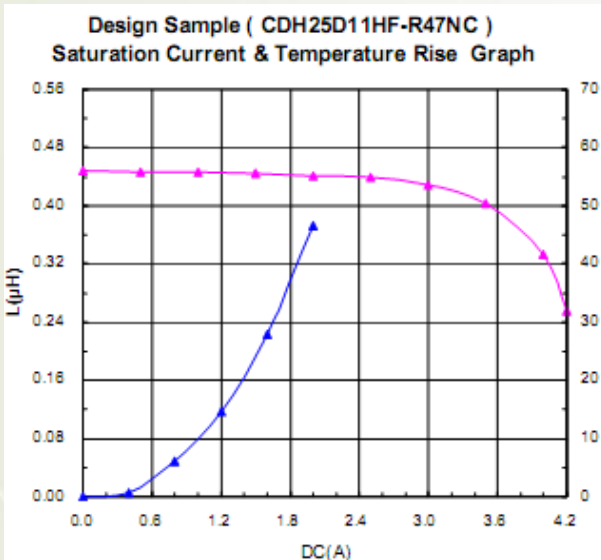
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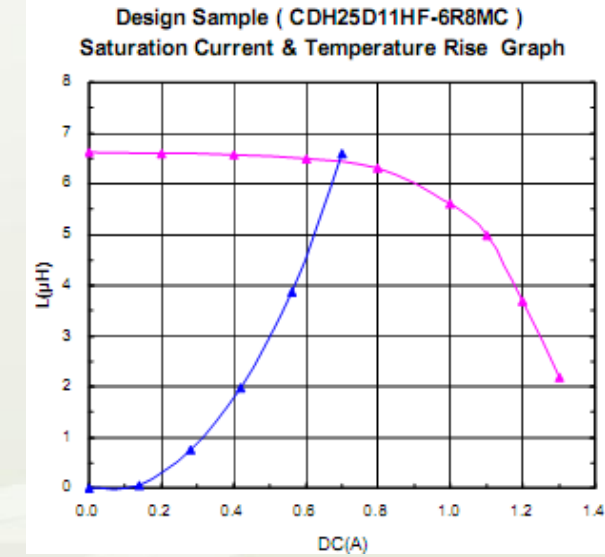
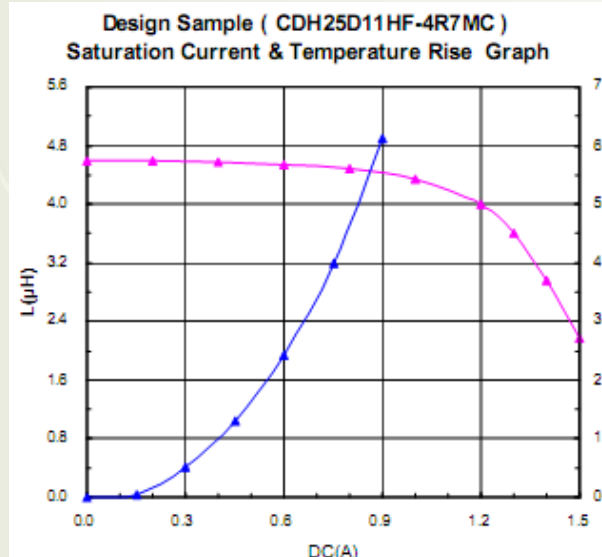
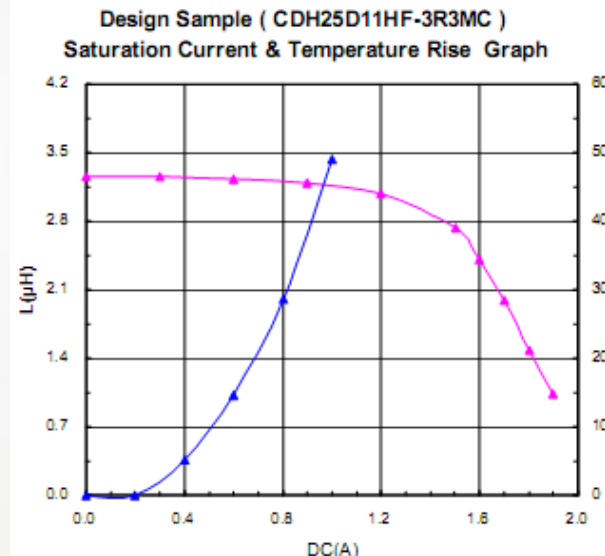
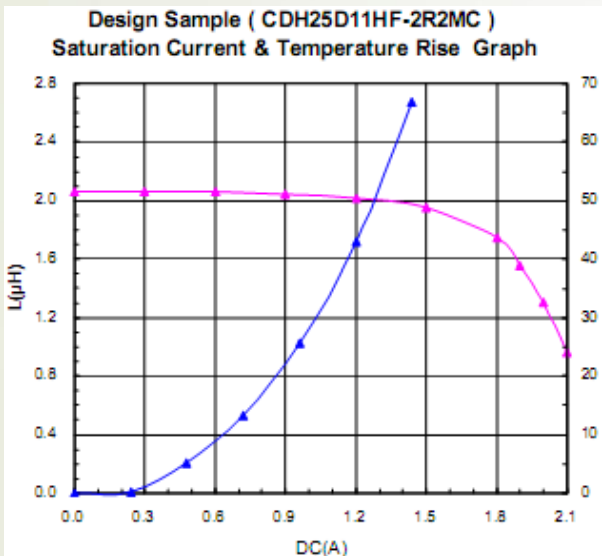
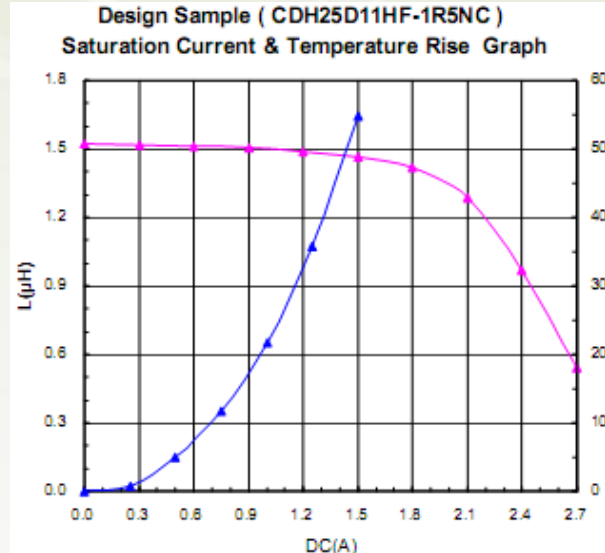
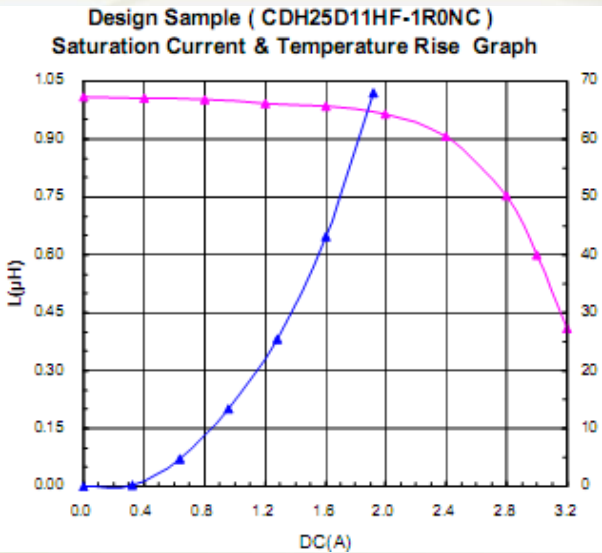
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◆ CDH25D11



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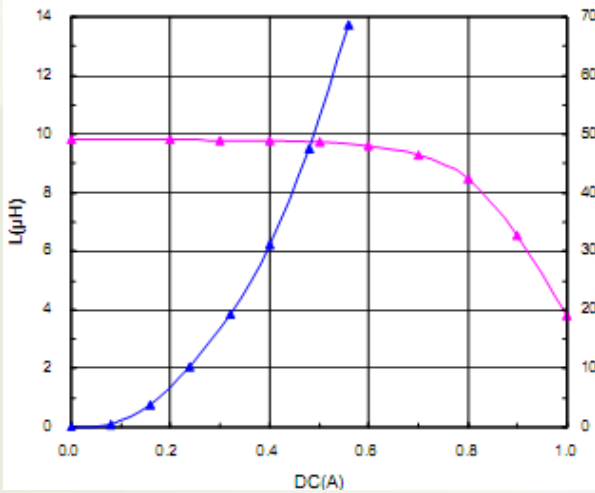


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Design Sample (CDH25D11HF-100MC)
Saturation Current & Temperature Rise Graph



For More Information

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