

Power Inductor CDH25D09,CDH25D11



■ Features

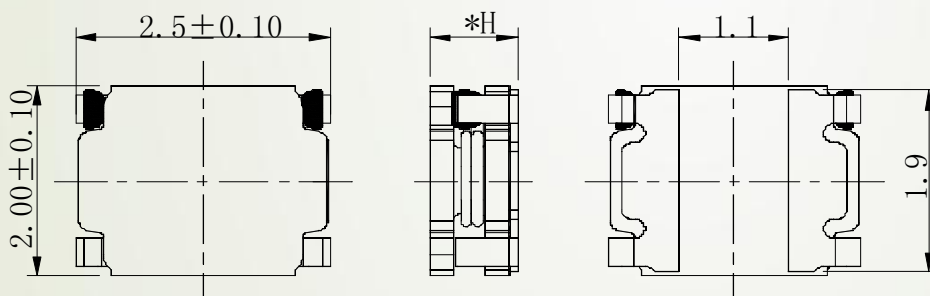
- ◎ Magnetically unshielded construction.
- ◎ Land pattern is compatible to Chip 2520 size.
- ◎ Storage temperature range:-40°C~+105°C.
- ◎ Operating temperature range:-40°C~+105°C(including coil's self-heat).
- ◎ RoHS Compliance and Halogen free.

■ 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

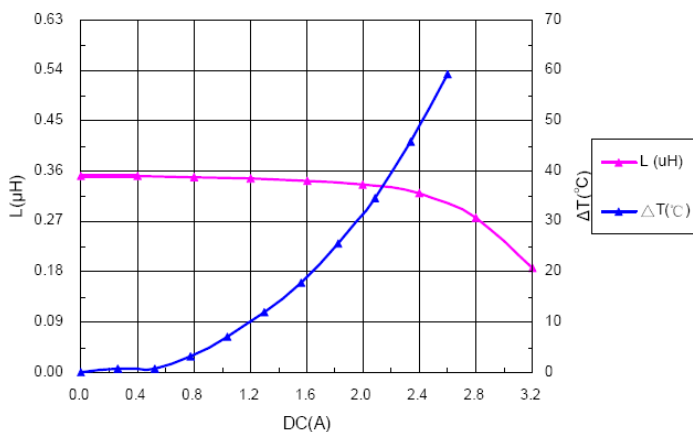
※1、 Saturation Current: This indicates the value of D.C. current when the inductance decreases to 70% of its nominal value.

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

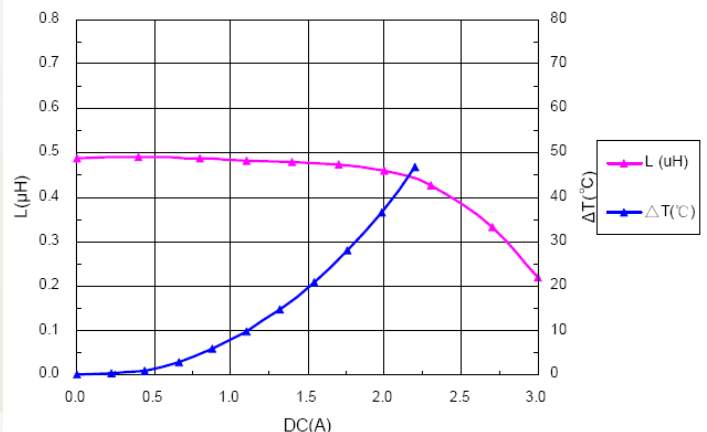
■Rated Current Curve

◆ CDH25D09

Design Sample (CDH25D09HF-R47NC)
Saturation Current & Temperature Rise Graph



Design Sample (CDH25D09HF-R68NC)
Saturation Current & Temperature Rise Graph

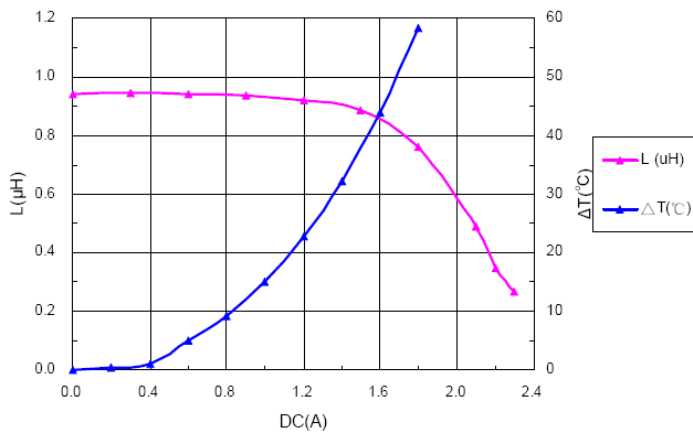


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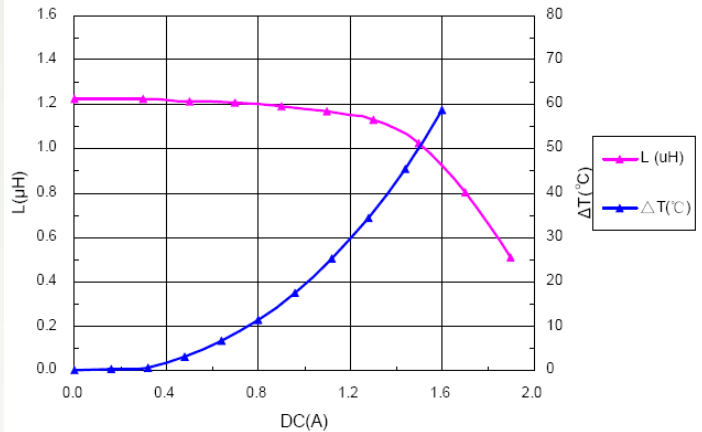


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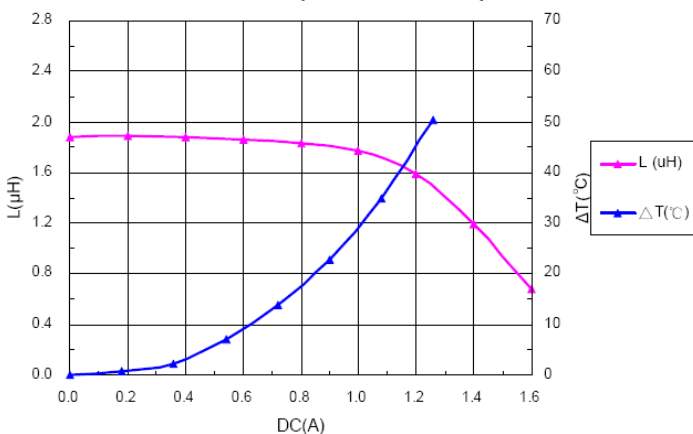
Design Sample (CDH25D09HF-1R0NC)
Saturation Current & Temperature Rise Graph



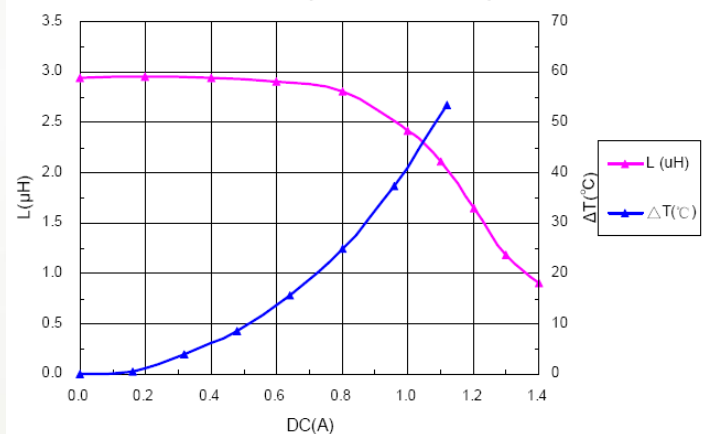
Design Sample (CDH25D09HF-1R5NC)
Saturation Current & Temperature Rise Graph



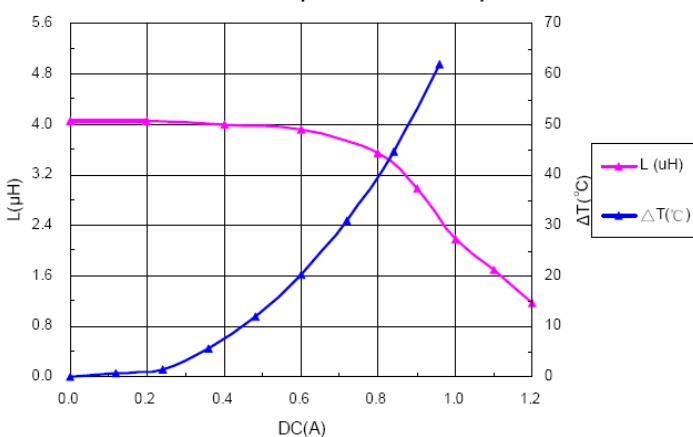
Design Sample (CDH25D09HF-2R2MC)
Saturation Current & Temperature Rise Graph



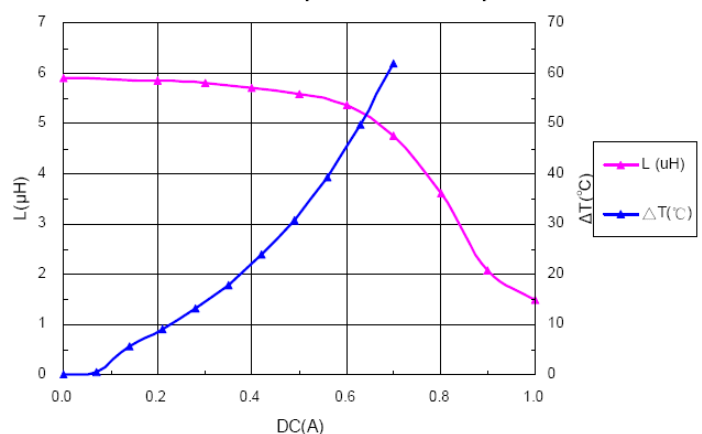
Design Sample (CDH25D09HF-3R3MC)
Saturation Current & Temperature Rise Graph



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



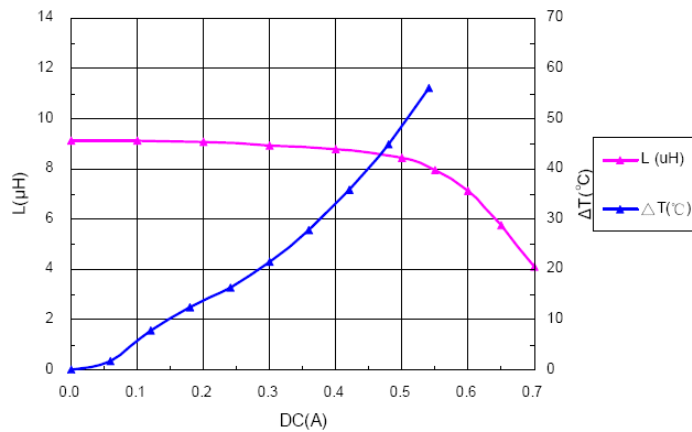
Design Sample (CDH25D09HF-6R8MC)
Saturation Current & Temperature Rise Graph



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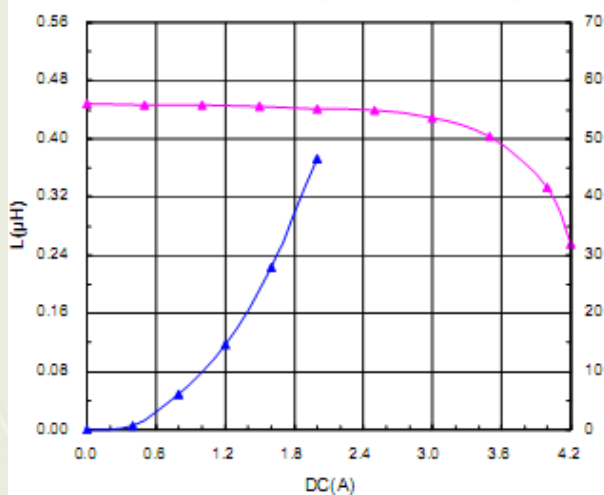


Design Sample (CDH25D09HF-100MC)
Saturation Current & Temperature Rise Graph

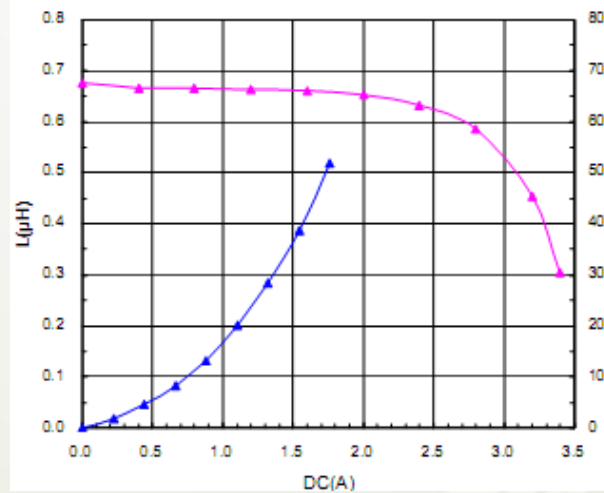


◆ CDH25D11

Design Sample (CDH25D11HF-R47NC)
Saturation Current & Temperature Rise Graph



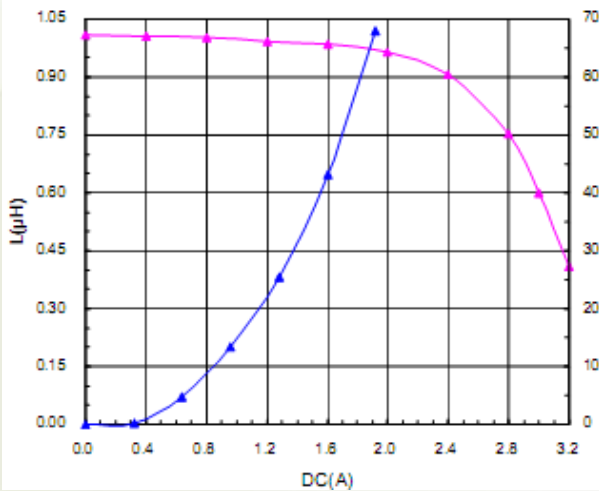
Design Sample (CDH25D11HF-R68NC)
Saturation Current & Temperature Rise Graph



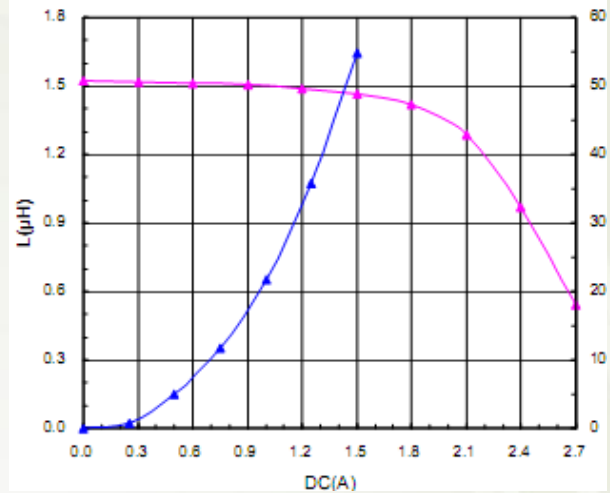
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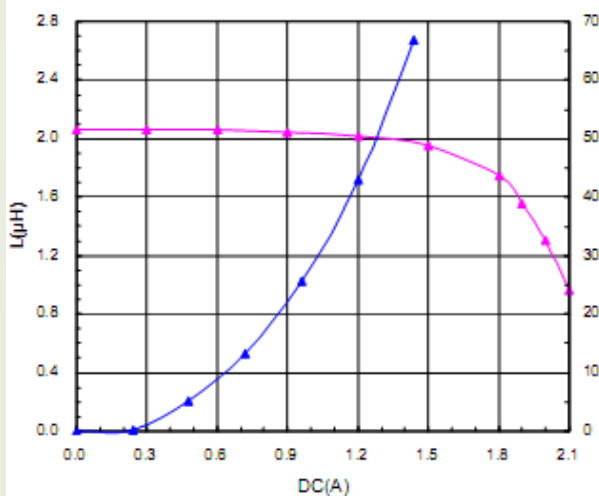
Design Sample (CDH25D11HF-1R0NC)
Saturation Current & Temperature Rise Graph



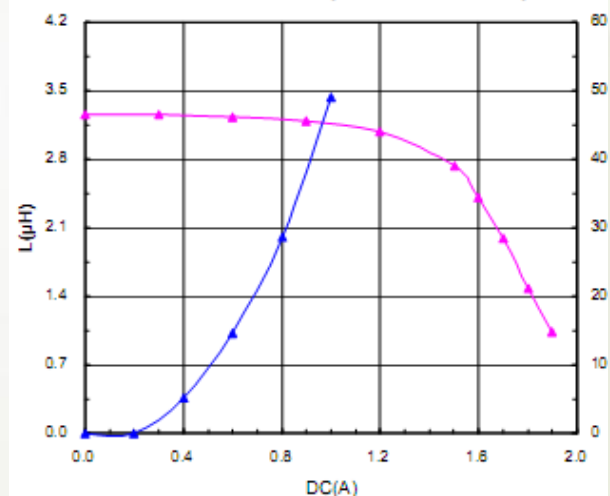
Design Sample (CDH25D11HF-1R5NC)
Saturation Current & Temperature Rise Graph



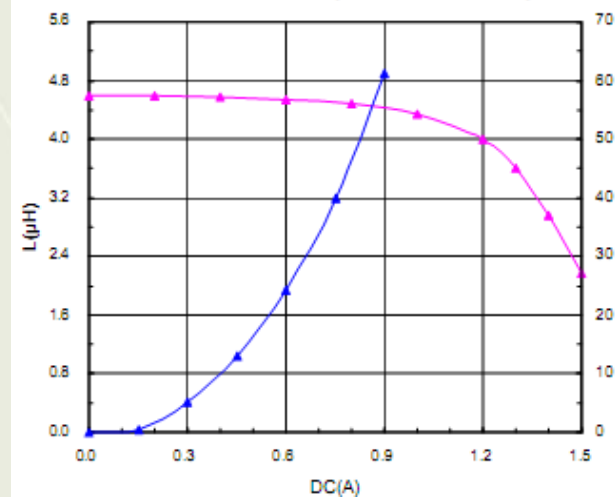
Design Sample (CDH25D11HF-2R2MC)
Saturation Current & Temperature Rise Graph



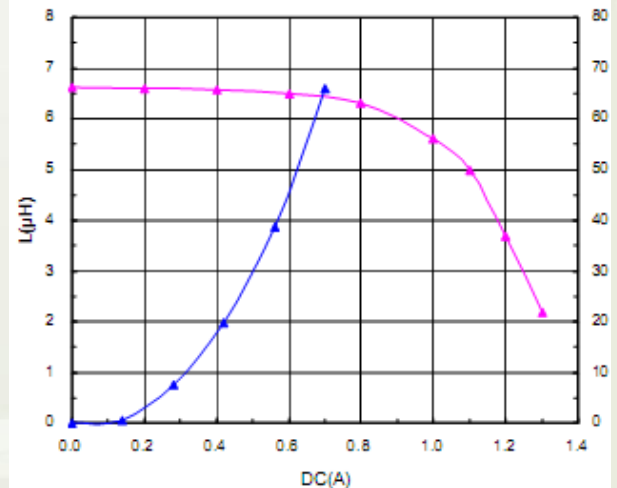
Design Sample (CDH25D11HF-3R3MC)
Saturation Current & Temperature Rise Graph



Design Sample (CDH25D11HF-4R7MC)
Saturation Current & Temperature Rise Graph



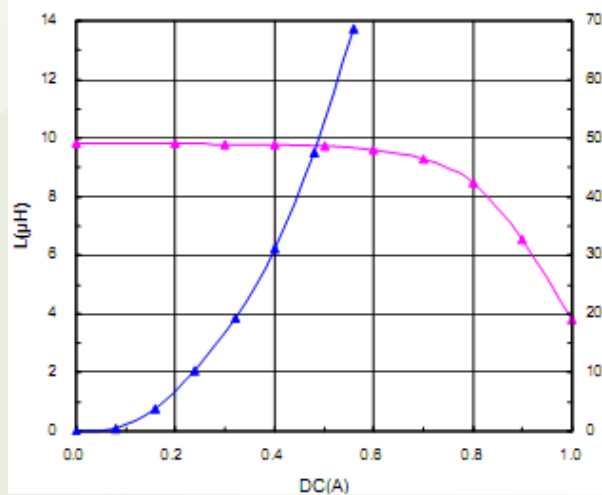
Design Sample (CDH25D11HF-6R8MC)
Saturation Current & Temperature Rise Graph



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



For More Information

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