



One of the World's Largest Manufacturers of
Discrete Semiconductors and Passive Components

IHLP® Inductor Loss Calculator Tool User Guide

VISHAY Build Vishay into your Design

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Products > Inductors > IHLP® inductor loss calculator tool landing page > IHLP® inductor loss calculator tool

IHLP® INDUCTOR LOSS CALCULATOR TOOL

Choose Calculator Type
Boost

Choose Available Series
IHLP-1616AB-01

Select Inductance:
☐ 0.047 μ H
☐ 0.10 μ H
☐ 0.22 μ H
☐ 0.47 μ H
☒ 1 μ H

IHLP-1616AB-01-1 Boost μ H Ind. Loss Calculator			
Inputs: Enter data into yellow fields		Outputs	
Frequency =	800000 Hz	ET _{tot} =	0.76 V- μ sec
Output Current =	2 Amps	F _(eff) =	526349.5 Hertz
Ambient Temp =	25 °C	Res =	0.051936 Ohms
Volts In =	1.5 Volts	I _{max} =	3.77 Amps
Volts Out =	2.5 Volts	I _{sat} =	3.01 Amps
V _{DS} =	0.025 Volts	I _{ripple} =	0.76 Amps
V _D =	0.025 Volts	Duty =	0.41
I _{avg} =	3.4 Amps	P _{core} =	0.012 Watts
ET _{avg} =	0.27 V- μ sec	P _{cu} =	0.597 Watts
B _{ga} =	280.0 G	P _{ac} =	0.014 Watts
A =	0.175 Inch 4.13 mm	P _{tot} =	0.623 Watts
B =	0.160 Inch 4.13 mm	Temp. Coeff.	48.1 °C/W
C =	0.047 Inch 1.13 mm	Temp. Rise	30.0 °C
		Comp Temp	55.0 °C

Reference Cost: 0.9 Compared to IHLP-2526CZ-01

Warning Messages:

Inductor Current (One Cycle)

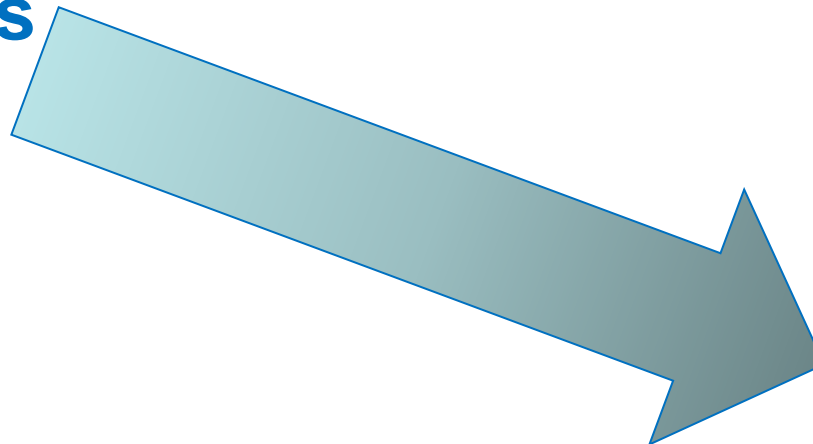
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Build **Vishay**
into your Design

How do I get to it?

If You're Already on
the Vishay Inductors
Page ...

If Not ...




VISHAY Build Vishay into your Design

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PRODUCTS APPLICATIONS COMPANY INFO QUALITY AND ENVIRONMENTAL

Products » Inductors

INDUCTORS

New Parametric Search

With through-hole, SMD, and custom products available, Vishay offers the widest range of inductors in the industry. This product family includes the low-profile IHLP® power inductor family, ideal for compact, space-sensitive applications.

Surface Mount	Through-Hole	Applications
Power Inductors (102)	Axial Leaded Inductors (21)	Automotive (34)
High Frequency Inductors (9)	Filter Inductors (7)	Cellular (19)
Wirewound Inductors (12)	Power Inductors (4)	Computer (105)
Common Mode Chokes (3)	Radial Leaded Inductors (11)	Consumer (23)
Multilayer Ferrite Beads (7)	Toroidal Inductors (4)	Industrial (115)
Multilayer Ferrite Inductors (3)	Transformers (6)	Military (3)
Transformers (8)	Military Inductors (3)	Modem (10)
Custom Transformers (7)	Wireless Charging (2)	Power Supplies (107)
		Telecommunications (125)
		Wireless Charging (2)

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- Ordering Info (2)
- Packaging Information (1)
- Product Literature (13)
- Reference Data (3)
- Selector Guides (8)
- Technical Notes (3)

Inductors 101
Web Presentation
now online...

General information

New IHLP® Loss Calculator
Inductance and Tolerance Conversion
Tables for Global Part Numbers
SMD Magnetics Packaging Methods
Leaded Magnetics Packaging Methods

Selector guides

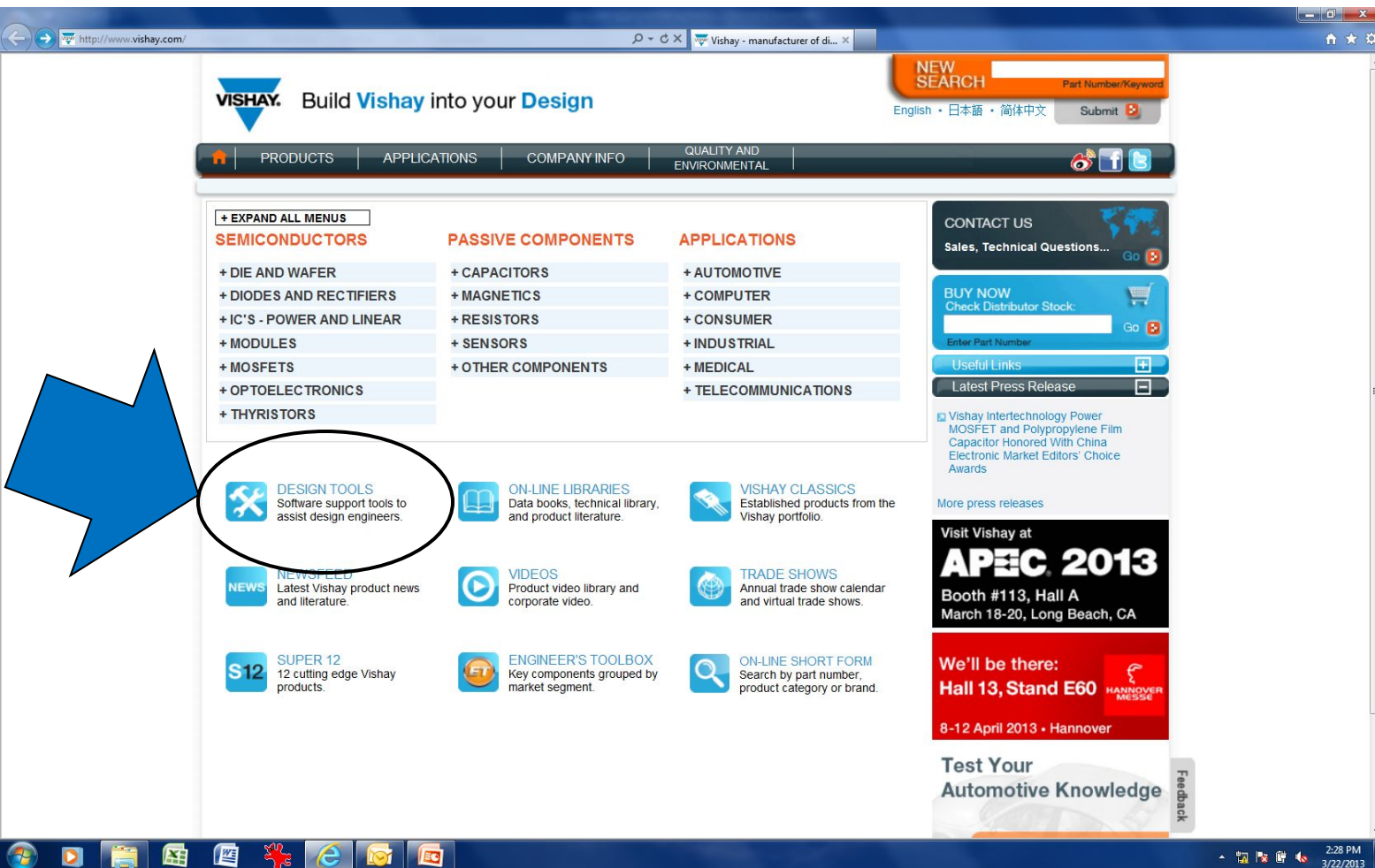
- IHLP®
- Chip Inductors
- Ferrite Bead
- IHSM
- SMD and Axial Lead Inductors

IHLP® Design Calculator
Compute the losses for IHLP power inductors
click to begin computation

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How do I get to it?

Start with Vishay's Webpage - WWW.Vishay.com



The screenshot shows the Vishay website homepage. A large blue arrow points to the 'DESIGN TOOLS' link in the 'EXPAND ALL MENUS' section. The website layout includes a header with the Vishay logo and tagline 'Build Vishay into your Design', a navigation bar with links to PRODUCTS, APPLICATIONS, COMPANY INFO, and QUALITY AND ENVIRONMENTAL, and a main content area with various product categories and links. The 'DESIGN TOOLS' link is circled and highlighted by the blue arrow.

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EXPAND ALL MENUS

SEMICONDUCTORS

- + DIE AND WAFER
- + DIODES AND RECTIFIERS
- + IC'S - POWER AND LINEAR
- + MODULES
- + MOSFETS
- + OPTOELECTRONICS
- + THYRISTORS

PASSIVE COMPONENTS

- + CAPACITORS
- + MAGNETICS
- + RESISTORS
- + SENSORS
- + OTHER COMPONENTS

APPLICATIONS

- + AUTOMOTIVE
- + COMPUTER
- + CONSUMER
- + INDUSTRIAL
- + MEDICAL
- + TELECOMMUNICATIONS

DESIGN TOOLS
Software support tools to assist design engineers.

ON-LINE LIBRARIES
Data books, technical library, and product literature.

VISHAY CLASSICS
Established products from the Vishay portfolio.

NEWS
Latest Vishay product news and literature.

VIDEOS
Product video library and corporate video.

TRADE SHOWS
Annual trade show calendar and virtual trade shows.

S12
12 cutting edge Vishay products.

ENGINEER'S TOOLBOX
Key components grouped by market segment.

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Search by part number, product category or brand.

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Useful Links

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Vishay Intertechnology Power MOSFET and Polypropylene Film Capacitor Honored With China Electronic Market Editors' Choice Awards

More press releases

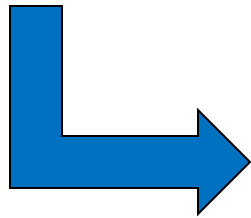
Visit Vishay at
APEC 2013
Booth #113, Hall A
March 18-20, Long Beach, CA

We'll be there:
Hall 13, Stand E60
8-12 April 2013 • Hannover

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Feedback

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down to:



	Powered by Epsilon
	SPICE models
Rectifiers	SPICE models
TVS and ESD protection devices	SPICE models

PASSIVE COMPONENTS


Product Group	Description
Aluminum capacitors	Capacitor selection tool
Inductors	Loss calculator
NTC thermistors	Curve computation program
	Piezo resistive sensor bridge analog temperature compensation calculator
	My VISHAY NTC curve
	3D Models
	Resistor/Thermistor Networks Computation
Resistors	Ohm's Law Calculator
	Pulse Energy Calculator
Tantalum capacitors	Reliability calculator

Click Here

Demo boards and other information

Product Group	Description
---------------	-------------

You will find the landing page


Build Vishay into your Design

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[Products – Inductors – IHLP® inductor loss calculator tool landing page](#)

LANDING PAGE FOR IHLP® INDUCTOR LOSS CALCULATOR TOOL

Vishay's new "IHLP Core Loss Calculator" is a free tool that assists designers in selecting the proper IHLP inductor based on the operating conditions of their circuit. This tool will simulate the losses in the inductor, including core and both AC and DC copper losses. The temperature rise and final component temperature will also be predicted based on the estimated losses. This tool will allow designers to compare several different inductors, both in size and value, to assist in the selection process. The calculator can be used for buck, boost and buck/boost style converters.


The calculator requires eight inputs: input voltage, output voltage, switch (FET) voltage drop, diode (or sync FET) voltage drop, output current, frequency, ambient temperature and inductance. The calculator will do the rest based on these inputs. Inductance can be selected by using the "radio" buttons on the left hand side.


All designs should be verified in circuit as this tool is for simulation only.

[Click here to access the loss calculator tool.](#)

Design Criteria

IHLP inductors have a recommended maximum component temperature of 125 °C. Subtracting the ambient temperature will give us the maximum allowed temperature rise for the part. If this number should exceed 40 °C it is recommended that 40 °C be used for the allowed temperature rise. Core losses should be limited to $\leq 1/3$ of the total losses to mitigate any aging effects associated with the powdered iron in the core at temperatures exceeding 125 °C. The recommended range for the ripple current is 30% to 50% of inductor current. This is based on a trade off of inductor size and cost versus output capacitor size and cost. The maximum peak current should be kept below the I_{sat} value of the selected inductor, although it can be exceeded with caution due to the soft saturation characteristics of the powdered iron core material. The calculators are based on operation in the continuous conduction mode only, information determined in the discontinuous conduction mode should be considered suspect and in need of verification by the user.

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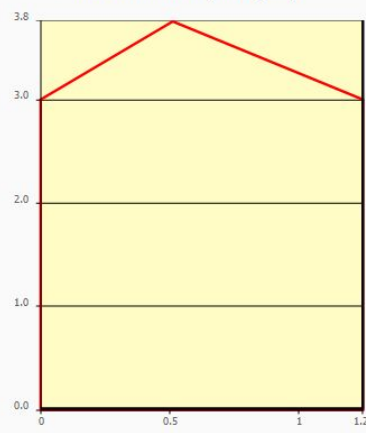
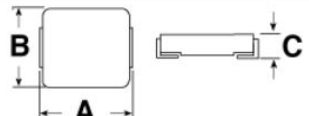
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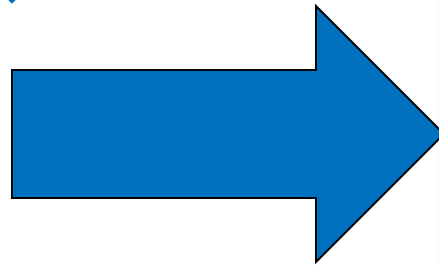
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IHLP® INDUCTOR LOSS CALCULATOR TOOL

Choose Calculator Type		IHLP-1616AB-01- 1 Boost μ H Ind. Loss Calculator										Ratings		
Boost												Inductance	1	μ H
Choose Available Series												25° C DC Res	0.045	Ohms
IHLP-1616AB-01												Isat	8.5	Amps
Select Inductance:												I(Heat)	4	Amps
0.047 μ H <input type="radio"/> 0.10 μ H <input type="radio"/> 0.22 μ H <input type="radio"/> 0.47 μ H <input type="radio"/> 1 μ H <input checked="" type="radio"/>												Inductor Current (One Cycle)		
		Inputs: Enter data into yellow fields				Outputs								
		Frequency =	800000	Hz	ET _{ckt}	0.76	V-usec							
		Output Current =	2	Amps	F(eff)	526349.5	Hertz							
		Ambient Temp =	25	°C	Res	0.051936	Ohms							
		Volts In =	1.5	Volts	I _{max}	3.77	Amps							
		Volts Out =	2.5	Volts	I _{min}	3.01	Amps							
		V _{SW} =	0.025	Volts	I _{ripple}	0.76	Amps							
		V _D =	0.025	Volts	Duty	0.41								
		I _{ind} =	3.4	Amps	P _{core}	0.012	Watts							
		ET ₁₀₀ =	0.27	V-usec	P _{dc}	0.597	Watts							
		B _{pk} =	280.0	G	P _{ac}	0.014	Watts							
		A	0.175	Inch	4.13	mm	P _{tot}	0.623	Watts					
		B	0.160	Inch	4.13	mm	Temp. Coeff.	48.1	°C/W					
		C	0.047	Inch	1.13	mm	Temp Rise	30.0	°C					
							Comp Temp	55.0	°C					
Reference Cost		0.9				Compared to IHLP-2525CZ-01								
						Warning Messages:								
						Notes May Be Added Here:								

Start by
choosing the
Calculator Type





PRODUCTS

APPLIC

[Products](#) » [Inductors](#) » [IHLP® inductor loss](#)

IHLP® INDUCTOR LOS

Choose Calculator Type

Buck

Boost

Buck

Buck-Boost

ies

Select Inductance:

0.047 μ H

0.10 μ H

0.22 μ H

0.47 μ H

1 μ H

F

Output

Ambi

**Enter your
circuit
requirements in
the YELLOW
boxes/fields**

**(Use the Tab key
to change fields)**

s	Inputs: Enter data into yellow fields		
	Frequency =	500000	Hz
	I_{ind} =	5	Amps
	Ambient Temp =	65	°C
	Volts In =	12	Volts
	Volts Out =	3.3	Volts
	V_{sw} =	0.1	Volts
	V_D =	0.5	Volts
	ET_{100} =	1.06	V-usec

Note: $I_{ind} = I_{out}$ in a Buck converter.

V_{sw} = The voltage drop in the switch (MOSFET).

V_D = The voltage drop in the output diode.

IHLP® INDUCTOR

Choose Calculator Type

Boost

Choose Available Series

IHLP-1616AB-01

IHLP-1616AB-01

IHLP-1616AB-11

IHLP-1616BZ-01

IHLP-1616BZ-11

IHLP-2020AB-01

IHLP-2020BZ-01

IHLP-2020BZ-11

IHLP-2020CZ-01

IHLP-2020CZ-11

IHLP-2525AH-01

IHLP-2525BD-01

IHLP-2525CZ-01

IHLP-2525CZ-11

IHLP-2525CZ-5A

IHLP-2525EZ-01

IHLP-3232CZ-01

IHLP-3232CZ-11

IHLP-3232DZ-01

IHLP-3232DZ-11

IHLP-3232DZ-5A

IHLP-4040DZ-01

IHLP-4040DZ-11

IHLP-4040DZ-5A

IHLP-5050CE-01

IHLP-5050EZ-01

IHLP-5050FD-01

IHLP-5050FD-5A

IHLP-6767DZ-01

IHLP-6767DZ-11

IHLP-6767GZ-01

Re

Select which
IHLP series you
wish to start
with ...

Choose Available Series

IHLP-2525BD-01 ▾

Select Inductance:

- 0.1 μH ☐
- 0.22 μH ☐
- 0.33 μH ☐
- 0.47 μH ☐
- 0.68 μH ☐
- 0.82 μH ☐
- 1 μH ☐
- 1.5 μH ☐
- 2.2 μH ☒
- 3.3 μH ☐
- 4.7 μH ☐
- 6.8 μH ☐
- 8.2 μH ☐
- 10 μH ☐

Use the *RADIO* buttons to select an inductance value ...

Calculator Outputs



Outputs

**Circuit
parameters**

**Power
dissipation**

**Component
temperature**

Outputs			
ET _{ckt}	5.27	V-usec	
F(eff)	374413.5	Hertz	
Res	0.036632	Ohms	
I _{max}	6.20	Amps	
I _{min}	3.80	Amps	
I _{ripple}	2.40	Amps	
Duty	0.31		
P _{core}	0.177	Watts	
P _{dc}	0.916	Watts	
P _{ac}	0.159	Watts	
P _{tot}	1.252	Watts	
Temp. Coeff.	29.3	°C/W	
Temp Rise	36.7	°C	
Comp Temp	101.7	°C	



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IHLP® INDUCTOR LOSS CALCULATOR TOOL

Choose Calculator Type

Boost

Choose Available Series

IHLP-1616AB-01

Select Inductance:

0.047 μ H

0.10 μ H

0.22 μ H

0.47 μ H

1 μ H

IHLP-1616AB-01 - 1 Boost μ H Ind. Loss Calculator

Inputs: Enter data into yellow fields				Outputs			
Frequency =	800000	Hz		ET _{ckt}	0.76	V _{usec}	
Output Current =	2	Amps		F(eff)	526349.5	H	
Ambient Temp =	25	°C		Res	0.051936	Watts	
Volts In =	1.5	Volts		I _{max}	3.77	Amps	

Inductor Current (One Cycle)

Component Information

A	0.175	Inch	4.13	mm	P _{tot}	0.623	Watts
B	0.160	Inch	4.13	mm	Temp. Coeff.	48.1	°C/W
C	0.047	Inch	1.13	mm	Temp Rise	30.0	°C
					Comp Temp	55.0	°C

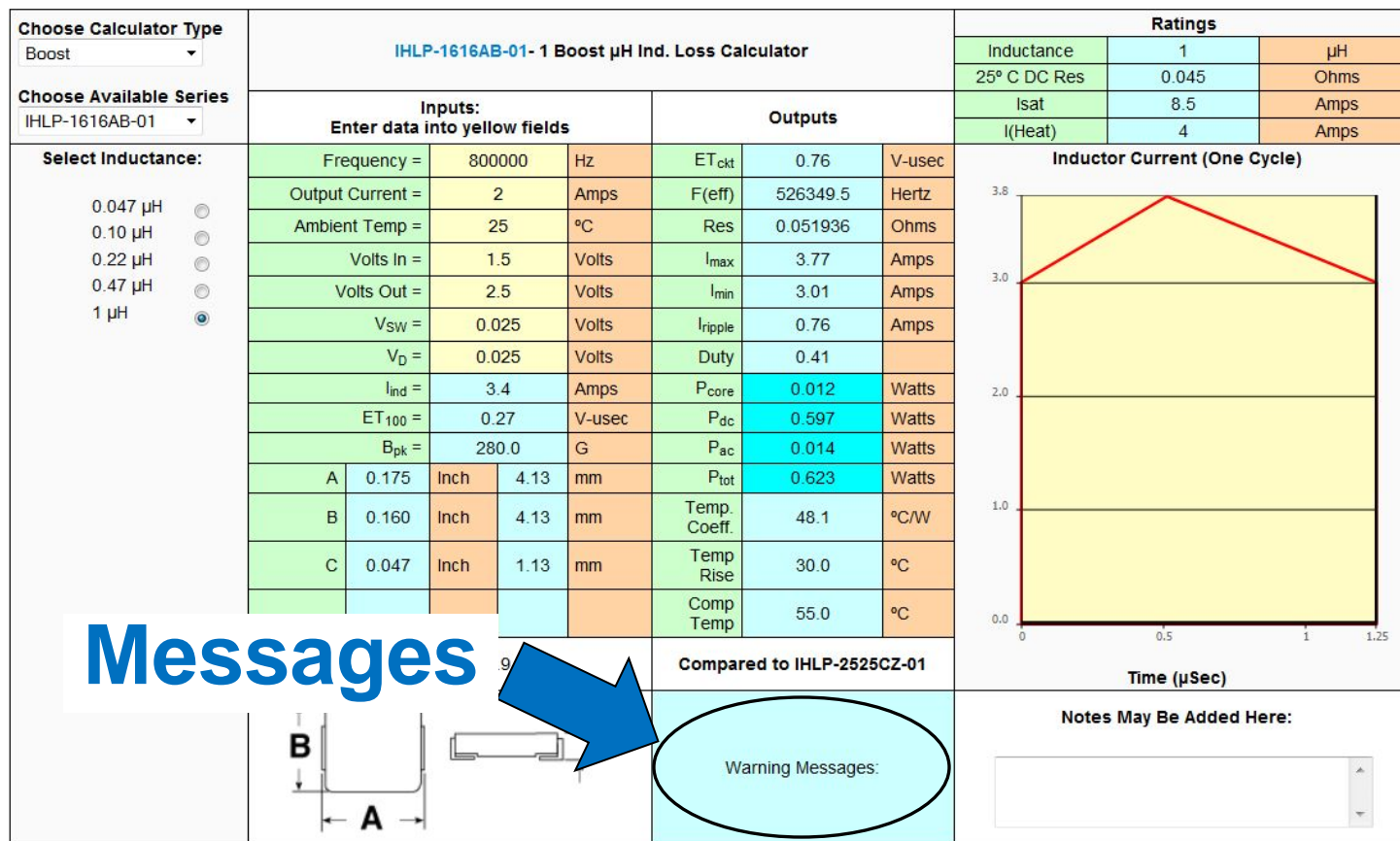
Reference Cost: 0.9

Compared to IHLP-2525CZ-01

Warning Messages:

Notes May Be Added Here:

IHLP® INDUCTOR LOSS CALCULATOR TOOL



Messages – What do they mean?

**There are four possible
messages that can be
displayed**



They are

Messages – What do they mean?

1. **Warning – Component temperature Exceeds 125°C**
2. **Inductor Current Exceeds Saturation Current**
3. **Discontinuous Mode – Model Invalid**
4. **Caution – Core Losses Greater Than 1/3 of total Losses**

The first two are self explanatory (it would be 155°C for -5X parts)

The third indicates that the circuit would be in discontinuous mode – the calculator is based on continuous conduction mode. The results will not be as accurate.

The fourth is just informational, a good rule of thumb is 1/3 core and 2/3 copper losses.

IHLP® INDUCTOR LOSS CALCULATOR TOOL

Choose Calculator Type

Boost

Choose Available Series

IHLP-1616AB-01

Select Inductance:

0.047 μ H

0.10 μ H

0.22 μ H

0.47 μ H

1 μ H

IHLP-1616AB-01 - 1 Boost μ H Ind. Loss Calculator

Inputs:

Enter data into yellow fields

Outputs

Frequency =	800000	Hz	ET _{alt}	0.76	V-usec
Output Current =	2	Amps	F(eff)	526349.5	Hertz
Ambient Temp =	25	°C	Res	0.051936	Ohms
Volts In =	1.5	Volts	I _{max}	3.77	Amps
Volts Out =	2.5	Volts	I _{min}	3.01	Amps
V _{SW} =	0.025	Volts	I _{ripple}	0.76	Amps
V _D =	0.025	Volts	Duty	0.41	
I _{ind} =	3.4	Amps	P _{core}		
ET ₁₀₀ =	0.27	V-usec	P _{dc}		
B _{pk} =	280.0	G	P _{ac}		
A	0.175	Inch	4.13	mm	P _{tot}
B	0.160	Inch	4.13	mm	Temp. Coeff.
C	0.047	Inch	1.13	mm	Temp Rise
					Comp Temp

Reference Cost

0.9

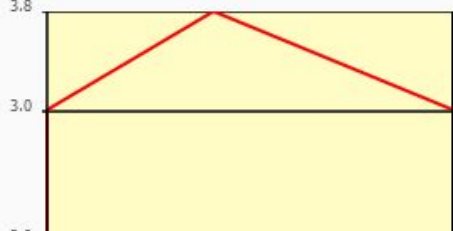
Core

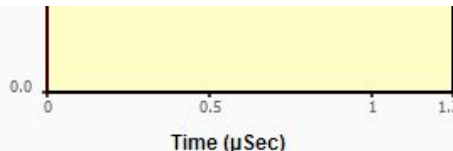
01

Wa

es:

Inductor Current (One Cycle)





Notes May Be Added Here:

If you need a little help

Click [HERE](#) for Help

IHLP® LOSS CALCULATOR HELP FILE

The purpose of this calculator is to estimate the losses in the Vishay IHLP series inductors used in continuous mode power converters. Both copper and core losses are estimated. The program also may be used to estimate temperature rise, but you may experience results different from what this program predicts.

Inputs: Eight inputs must be supplied by the user of the calculator. Data must be entered into the yellow cells only.

1. Enter the inductance by clicking on one of the radio buttons on the left side.
2. Enter the frequency of the circuit.
3. Enter the DC output current of the converter.
4. Enter the ambient temperature. The program uses this to calculate the final resistance of the inductor and the final component temperature.
5. Enter the input voltage of the converter.
6. Enter the output voltage of the converter.
7. Enter the switch drop voltage V_{SW} .
8. Enter the diode or sync FET voltage drop V_D .

Once entered, your inputs will remain as is until a new input value is entered. To change inductance used, click a different inductance button. Clicking the button sets up the calculator with new internal data for the part specified and immediately updates the calculator, including the graph.

Outputs: The outputs of the calculator are displayed in the blue cells, they are summarized below.

- **ET_{ckt}:** The volt-microsecond product of the converter circuit.
- **F_(eff):** This is the calculated effective frequency of the circuit used for the determination of core loss. The program takes into account the shape and amplitude of the current ripple when it calculates core loss.
- **Res:** Resistance of the inductor at the temperature specified in the inputs.
- **I_{max}:** The peak current of the inductor at the top of the ripple.
- **I_{min}:** The instantaneous current at the bottom of the ripple.
- **I_{ripple}:** The change of inductor current from the bottom of ripple to top of ripple = $I_{max} - I_{min}$.
- **Duty:** The percentage of time that the switch is on.
- **P_{core}:** Core loss in watts.
- **P_{dc}:** Conductor loss due to dc resistance in the inductor in watts.
- **P_{ac}:** Conductor loss due to ac effects in watts.
- **P_{tot}:** Total losses in the inductor = $P_{core} + P_{dc} + P_{ac}$.
- **Temp. Coeff.** The rise in temperature in °C per watt of dissipation. This is based on lab tests performed on sample inductors using the change of resistance method. Your thermal environment and that used in our lab may be different.
- **Temp Rise:** This is the increase in inductor temperature above ambient.
- **Comp Temp:** The ambient temperature plus the temperature rise. This is the estimated temperature of the inductor.
- **I_{ind}:** This is the DC current that the inductor sees in the boost and buck-boost converter topology, in buck converters the inductor current is equal to the output current.
- **ET₁₀₀:** Volt-microsecond product of the inductor at 100 gauss.
- **B_{pk}:** Peak flux density of the circuit based on operating conditions specified.

H
E
L
PF
I
L
E

IHLP® INDUCTOR LOSS CALCULATOR TOOL

Choose Calculator Type

Boost

Choose Available Series

IHLP-1616AB-01

Select Inductance:

0.047 μ H

0.10 μ H

0.22 μ H

0.47 μ H

1 μ H

IHLP-1616AB-01 - 1 Boost μ H Ind. Loss Calculator

Inputs:

Enter data into yellow fields

Frequency =

800000

Hz

Output Current =

2

Amps

Ambient Temp =

25

$^{\circ}$ C

Volts In =

1.5

Volts

Volts Out =

2.5

Volts

V_{SW} =

0.025

Volts

V_D =

0.025

Volts

Outputs

ET_{dit}

0.76

V-usec

F(eff)

526349.5

Hertz

Res

0.051936

Ohms

I_{max}

3.77

Amps

I_{min}

3.01

Amps

I_{ripple}

0.76

Amps

Duty

0.41

P_{core}

0.012

Watts

P_{dc}

0.597

Watts

P_{ac}

0.014

Watts

P_{tot}

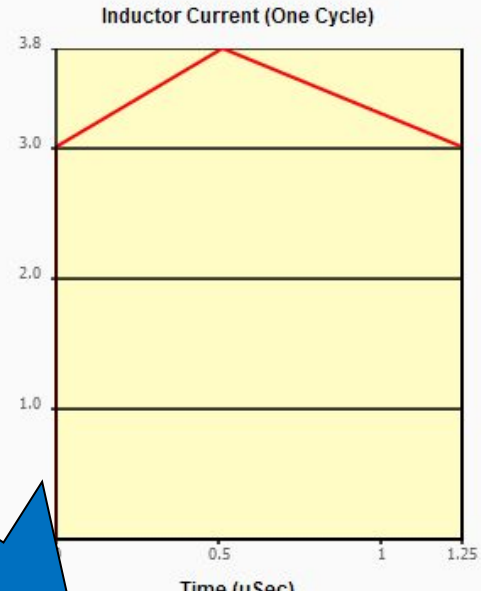
0.623

Watts

θ _{JA}

$^{\circ}$ C/W

Inductor Current (One Cycle)



Reference Cost

0.9

Compared to IHLP

Warning Messages

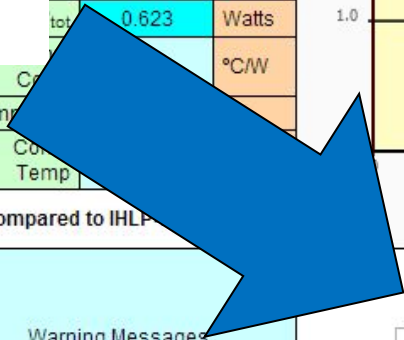
Notes May Be Added Here:

B

A

C

If you want to add notes



IHLP® INDUCTOR LOSS CALCULATOR TOOL

Choose Calculator Type

Boost

Choose Available Series

IHLP-1616AB-01

Select Inductance:

0.047 μ H

0.10 μ H

0.22 μ H

0.47 μ H

1 μ H

IHLP-1616AB-01 - 1 Boost μ H Ind. Loss Calculator

Inputs:


Enter data into yellow field

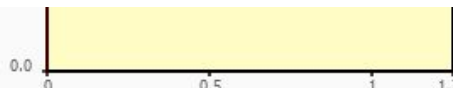
Outputs

Frequency =	800000	0.76	V-usec
Output Current =	2	349.5	Hertz
Ambient Temp =	25	0.006	Ohms
Volts In =	1.5	0.007	Amps
Volts Out =	2.5	I _{min}	3.0
V _{SW} =	0.025	I _{ripple}	0.0
V _D =	0.025	Duty	0.0
I _{ind} =	3.4	P _{core}	0.0
ET ₁₀₀ =	0.27	P _{dc}	0.5
B _{pk} =	280.0	P _{ac}	0.0
A	0.175	Inch	4.13
B	0.160	Inch	4.13
C	0.047	Inch	1.13
Reference Cost	0.9	Compared to IHLP-2525CZ-01	

Warning Messages:

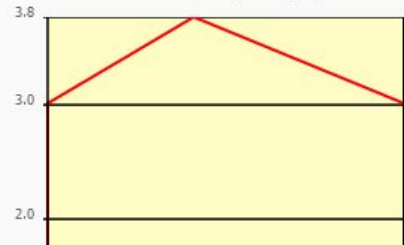
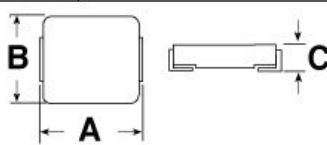
Inductor Current (One Cycle)





Notes May Be Added Here:

Link to
component
product
information

IHLP-1616AB-01 - 1 Boost μ H Ind. Loss Calculator										Ratings				
Inputs: Enter data into yellow fields					Outputs					Inductance	1	μ H		
										25°C DC Res	0.045	Ohms		
										Isat	8.5	Amps		
										I(Heat)	4	Amps		
Frequency =	800000	Hz	ET _{ckt}	0.76	V-usec	Inductor Current (One Cycle) 								
Output Current =	2	Amps	F(eff)	526349.5	Hertz									
Ambient Temp =	25	°C	Res	0.051936	Ohms									
Volts In =	1.5	Volts	I _{max}	3.77	Amps									
Volts Out =	2.5	Volts	I _{min}	3.01	Amps									
V _{SW} =	0.025	Volts	I _{ripple}	0.76	Amps									
V _D =	0.025	Volts	Duty	0.41										
I _{ind} =	3.4	Amps	P _{core}	0.012	Watts									
ET ₁₀₀ =	0.27	V-usec												
B _{pk} =	280.0	G												
A	0.175	Inch	4.13	mm										
B	0.160	Inch	4.13	mm										
C	0.047	Inch	1.13	mm										
Reference Cost	0.9		Con											
					Warning Messages:					Not Added Here:				

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Feedback