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IHLP® INDUCTOR LOSS CALCULATOR TOOL

[Instructions]   [Help]

Choose Calculator Type
Buck ▾

Applications
Commercial ▾

Family/Case Size
IHLP-4040 ▾

Series
DZ-11 ▾

Select Inductance:

0.19 µH	◯
0.24 µH	◯
0.36 µH	◯
0.47 µH	◯
0.56 µH	◯
0.78 µH	◯
1.0 µH	⦿
1.5 µH	◯
1.8 µH	◯
2.0 µH	◯
4.7 µH	◯
6.8 µH	◯
10 µH	◯
22 µH	◯
33 µH	◯
47 µH	◯
100 µH	◯

IHLP-4040DZ-11 - 1 Buck µH Ind. Loss Calculator

Ratings	
Inductance	1.0
25º C DC Res	0.0023
Isat	20
I(Heat)	25

Inputs:
Enter data into yellow fields

Outputs

Frequency =	1000000	Hz		ET_{ckt}	2.92	V-usec
I_{ind} =	11.25	Amps		F(eff)	653886.5	Hertz
Ambient Temp =	25	ºC		Res	0.002655	Ohms
Volts In =	12	Volts		I_{max}	12.71	Amps
Volts Out =	5	Volts		I_{min}	9.79	Amps
V_{SW} =	0.025	Volts		I_{ripple}	2.92	Amps
V_D =	0.025	Volts		Duty	0.42	
				P_{core}	0.426	Watts
ET_{100} =	1.12	V-usec		P_{dc}	0.336	Watts
B_{pk} =	260.8	G		P_{ac}	0.077	Watts
A	0.453	Inch	11.5	mm	P_{tot}	0.839	Watts
B	0.405	Inch	10.3	mm	Temp. Coeff.	24.1	ºC/W
C	0.158	Inch	4.0	mm	Temp Rise	20.2	ºC
					Comp Temp	45.2	ºC

Reference Cost	1.1	Compared to IHLP-2525CZ-01

Warning Messages:

Inductor Current (O...

12.7

10.0

0.0

0   0.5

Time (µSec...

Notes May Be Add...

[Feedback]