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IHLP® INDUCTOR LOSS CALCULATOR TOOL

Instructions | Help

Choose Calculator Type

Buck

Applications

Commercial

Family/Case Size

IHLP-2020

Series

CZ-11

Select Inductance:

0.10 μH

0.22 μH

0.33 μH

0.47 μH

1.0 μH

1.5 μH

2.2 μH

3.3 μH

4.7 μH

5.6 μH

10 μH

22 μH

Frequency =

2500000

Hz

I_{ind} =

3

Amps

Ambient Temp =

30

°C

Volts In =

12

Volts

Volts Out =

5

Volts

V_{SW} =

0.025

Volts

V_D =

0.025

Volts

ET₁₀₀ =

0.75

V-usec

B_{pk} =

155.8

G

A

0.216

Inch

5.49

mm

B

0.204

Inch

5.18

mm

C

0.118

Inch

3.0

mm

Reference Cost

0.9

Inputs:

Enter data into yellow fields

Outputs

ET_{ckt}

1.17

V-usec

F(eff)

1634716.2

Hertz

Res

0.026402

Ohms

I_{max}

3.27

Amps

I_{min}

2.73

Amps

I_{ripple}

0.53

Amps

Duty

0.42

P_{core}

0.071

Watts

P_{dc}

0.238

Watts

P_{ac}

0.013

Watts

P_{tot}

0.321

Watts

Temp. Coeff.

33.3

°C/W

Temp Rise

10.7

°C

Comp Temp

40.7

°C

Compared to IHLP-2525CZ-01

Ratings

Inductance

2.2

μH

25° C DC Res

0.0225

Ohms

Isat

5.5

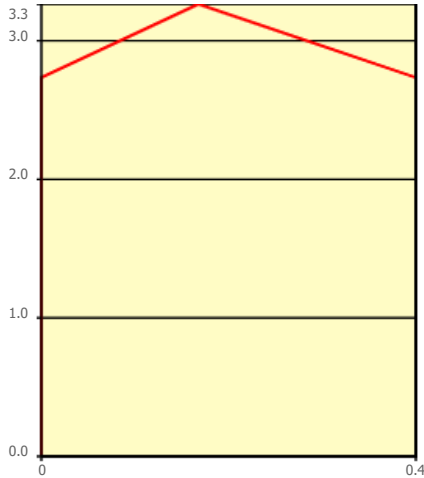
Amps

I(Heat)

6.8

Amps

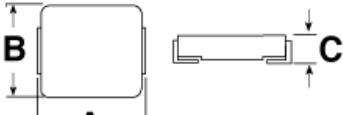
Inductor Current (One Cycle)



Time (μSec)

Warning Messages:

Feedback



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