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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

IHLP-2020CZ-11 - 0.47 Buck µH Ind. Loss Calculator

Inputs:
Enter data into yellow fields

Outputs

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	ET _{ckt}	0.96	V-usec		
I _{ind} =	5	Amps	F(eff)	1986376.2	Hertz		
Ambient Temp =	25	°C	Res	0.005771	Ohms		
Volts In =	12	Volts	I _{max}	6.02	Amps		
Volts Out =	3.3	Volts	I _{min}	3.98	Amps		
V _{SW} =	0.025	Volts	I _{ripple}	2.05	Amps		
V _D =	0.025	Volts	Duty	0.28			
			P _{core}	0.293	Watts		
ET ₁₀₀ =	0.23	V-usec	P _{dc}	0.144	Watts		
B _{pk} =	418.0	G	P _{ac}	0.066	Watts		
A	0.216	Inch	5.49	mm	P _{tot}	0.503	Watts
B	0.204	Inch	5.18	mm	Temp. Coeff.	35.4	°C/W
C	0.118	Inch	3.0	mm	Temp Rise	17.8	°C
					Comp Temp	42.8	°C
Reference Cost	0.9		Compared to IHLP-2525CZ-01				

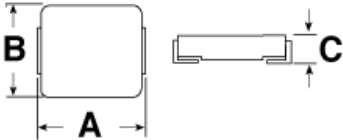
Ratings

Inductance	0.47	µH
25° C DC Res	0.0050	Ohms
Isat	9	Amps
I(Heat)	14	Amps

Inductor Current (One Cycle)

Time (µSec)

Feedback



Warning Messages:

Notes May Be Added Here: