

## **IHLP® INDUCTOR LOSS CALCULATOR TOOL**

motractions merp	Instructions		Help
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Choose Calculator Type Buck ▼										Ratings		
Applications	IHLP-4040DZ-11 - 0.47 Buck μH Ind. Loss Calculator									ce 0.47		
Commercial ▼										Res 0.0015		
Family/Case Size  IHLP-4040 ▼			Inputs:					Isat	30			
Series		Enter data into yellow fields					Outputs					
DZ-11 ▼					_				I(Heat)	30		
Select Inductance:		Frequency =	100	00000	Hz	ET <sub>ckt</sub>	2.92	V-usec		Inductor Current (		
		I <sub>ind</sub> =		20	Amps	F(eff)	653886.5	Hertz	23.1			
0.19 μH 0.24 μH	Am	Ambient Temp =		25		Res	0.001766	Ohms				
0.36 μH		Volts In =		12	Volts	I <sub>max</sub>	23.11	Amps	20.0	/		
0.47 μH		Volts Out =	5		Volts	I <sub>min</sub>	16.89	Amps				
0.78 μΗ		V <sub>SW</sub> = 0.025		.025	Volts	I <sub>ripple</sub>	6.21	Amps				
1.0 μΗ			0.025		Volts	Duty	0.42		1			
1.5 μH 1.8 μH						P <sub>core</sub>	1.165	Watts	1			
2.0 µH		ET <sub>100</sub> =	0.50	V-usec	P <sub>dc</sub>	0.706	Watts	10.0				
4.7 μH 6.8 μH	B <sub>pk</sub> =		584.2		G	Pac	0.261	Watts	1			
10 μH 22 μH	А	0.453	Inch	11.5	mm	P <sub>tot</sub>	2.133	Watts	1			
	В	0.405	Inch	10.3	mm	Temp. Coeff.	25.2	°C/W	1			
33 μH 47 μH	C	0.158	Inch	4.0	mm	Temp Rise	53.7	°C	-			
100 μΗ					1	Comp Temp	78.7	°C	0.0	0.5		
	Reference Cost	1 1 1				Compared to IHLP-2525CZ-01			Time (μSec			
	T B	B → A →					Warning Messages:					

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