



Design Input

Shape Selection:

Toroid Design

Material Selection:

High Flux

DC Current (Amps): ?

30

Peak to Peak Ripple (Amps): ?

7.5

Frequency (kHz): ?

9

Peak Current Inductance (μH): ?

1000

Specified Current (Amps): ?

30

Temperature Rise (°C): ?

Stack Cores: ?

1

RESET

FIND PART NUMBERS

Magnetics Part Numbers

Part No	Specification	Core OD(mm)	Size Code
58099	Datasheet	101.6	102
58100	Datasheet	101.6	102
58102	Datasheet	101.6	102
58339	Datasheet	132.6	337
58338	Datasheet	132.6	337
58337	Datasheet	132.6	337
58336	Datasheet	132.6	337
58167	Datasheet	165.1	165
58165	Datasheet	165.1	165
58164	Datasheet	165.1	165

Enter Selected Part Number

58167

DESIGN OUTPUT

OD

166.5

mm

HT

33.2

mm

Perm

60

μ

ID

101.0

mm

Design Output Adjustments

Turns:

AWG:

Strand:

Design Output

Min Inductance @ Full Load (μH):	?	1052.4
Nom Inductance @ No Load (μH):	?	1362.4
Min Inductance @ Specified Current (μH):	?	1093.9
Core Loss (W):	?	1.8
Copper Loss (W):	?	9.2
Total Losses (W):	?	11
Temperature Rise (°C):	?	12
Number of Turns:	?	87
Wire Size (AWG):	?	16
Winding Factor (%):	?	31.9%
DC Resistance (mΩ):	?	10.05
Finished OD (mm):		193
Finished HT (mm):		60
Total Wire Length (mm):		305,029