

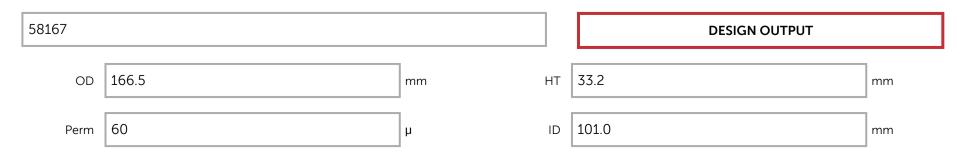
Design Input

| 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 | |
| | | | |
| | | | |
| | R | RESET | FIND PART NUMBERS |

Magnetics Part Numbers

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

Enter Selected Part Number



| A _L | 180 | nH/T² |
|----------------|-----|-------|
| | 100 | |

PLOT DESIGN

| Design Output Adjustments | | | | | | |
|--|----------------|---|---------|--|--|--|
| Turns: | | | | | | |
| AWG: | 16 | | | | | |
| Strand: | 20 | | | | | |
| | | | | | | |
| Design Output | | | | | | |
| Min Inductance & Fu | III oad (uH): | ? | 1052.4 | | | |
| Min Inductance @ Full Load (μΗ): Nom Inductance @ No Load (μΗ): | | | 1362.4 | | | |
| Min Inductance @ Specified Current (µН): | | | 1093.9 | | | |
| | ore Loss (W): | | 1.8 | | | |
| Сорр | per Loss (W): | ? | 9.2 | | | |
| Tota | l Losses (W): | ? | 11 | | | |
| Temperatu | ure Rise (°C): | ? | 12 | | | |
| Numb | ber of Turns: | ? | 87 | | | |
| Wire | Size (AWG): | ? | 16 | | | |
| Windin | g Factor (%): | ? | 31.9% | | | |
| DC Resis | stance (mΩ): | ? | 10.05 | | | |
| Finishe | ed OD (mm): | | 193 | | | |
| Finishe | ed HT (mm): | | 60 | | | |
| Total Wire L | ength (mm): | | 305,029 | | | |