

# POWER INDUCTORS

## Sendust Material (AL & Si Fe)

Well Suited for Switch Mode Power Supplies and Regulator Applications.

Varnish Finish Optional by adding a "V" suffix to the part number .

| Core Loss<br>@50kHz | Core Loss<br>@100kHz | Core Loss<br>@300kHz |
|---------------------|----------------------|----------------------|
| 5657                | 16000                | 83138                |

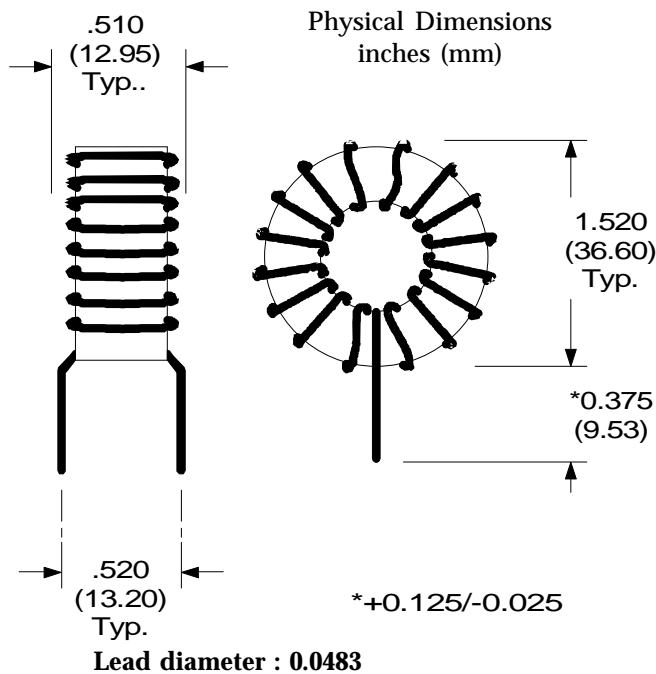
Core Loss in mW/cm<sup>3</sup> @4000Gauss

Core Loss Data is provided for comparison with other listed inductor materials and is for reference only.

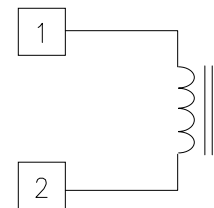
### Electrical Specifications at 25°C

| Part Number | L <sup>(1)</sup><br>(μH)<br>Typ. | IDC <sup>(2)</sup><br>20%<br>Amps | IDC <sup>(3)</sup><br>50%<br>Amps | I <sup>(4)</sup><br>max.<br>Amps | DCR<br>Max<br>(mΩ) | Lead<br>Size<br>AWG |
|-------------|----------------------------------|-----------------------------------|-----------------------------------|----------------------------------|--------------------|---------------------|
| L-14725     | 108.4                            | 6.50                              | 14.62                             | 9.70                             | 45                 | 17                  |

- 1) Typical Inductance with no DC. Tolerance of ±10%
- 2) Current which will produce a 20% reduction in L.
- 3) Current which will produce a 50% reduction in L.
- 4) Maximum DC current. This value is for a 40°C temperature rise due to copper loss. with AC flux density kept to 10 gauss or less. (This typically represents a current ripple of less than 1%).



### Schematic Diagram



|                      |               |
|----------------------|---------------|
| RHOMBUS P/N: L-14725 |               |
| CUST P/N:            | NAME:         |
| DATE: 2/14/00        | SHEET: 1 OF 1 |