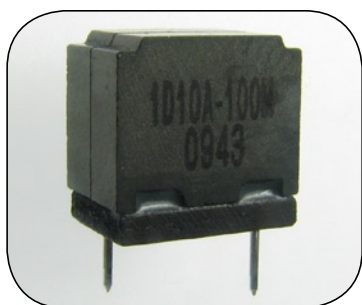


1D10A Series Class D Inductor



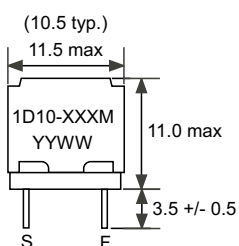
Features

- Small Footprint
- Shielded Design for low EMI
- Ferrite Material Designed for Audio Applications

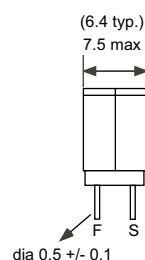
Applications

- Class D Audio Amplifiers

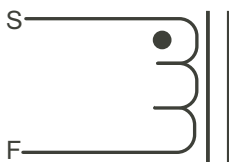
Front View



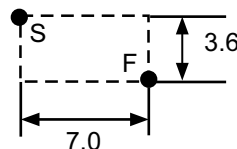
Side View



Schematic



Footprint



units: mm

Electrical Specifications

| Part No. | L_s^1 ($\mu\text{H} \pm 20\%$) | DCR (mOhms Max.) | I_{sat}^5 (A _{dc}) | I_{DC}^4 (A _{dc}) |
|------------|---------------------------------------|---------------------|--|---|
| 1D10A-100M | 10 | 20.5 | 7.5 | 4.5 |
| 1D10A-150M | 15 | 20.5 | 5 | 4.5 |
| 1D10A-220M | 22 | 20.5 | 3.5 | 4.5 |
| 1D10A-330M | 33 | 20.5 | 2 | 4.5 |

Notes:

1. Tested at 1kHz, 1Vrms series.
2. Electrical specifications at 25°C.
3. Operating range: -40°C to +130°C. This is a combination of ambient plus temperature rise.
4. DC current through winding to cause a 40°C temperature rise at 25°C ambient.
5. DC current through the winding to cause a 10% drop in inductance
6. All products are RoHS-compliant
7. Meets UL 94V-0

Specifications subject to change without notice.



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