

1D31A Series

THT Shielded Class D Inductors



- Height: 33.0 mm (Max)
- Footprint: 32.0 mm (Max) x 20.0 mm (Max)
- Small Footprint
- Shielded Design for Lower EMI
- Ferrite Material Designed for Audio Applications

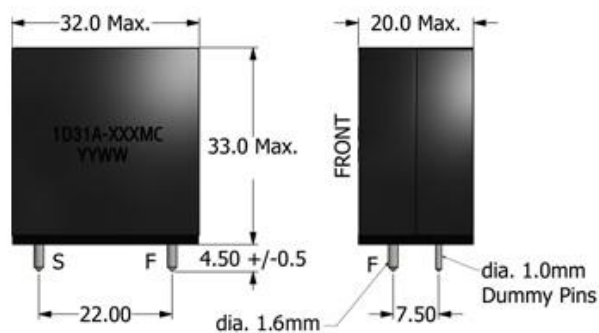
APPLICATIONS

Class D Audio Amplifiers

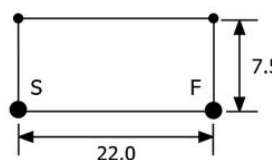
PACKAGING

Pieces/Tray: 40
Trays/Box: 4
Pieces/Box: 160

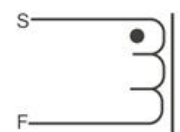
Mechanical Drawing



Mounting Dimensions



Schematic



All dimensions are in mm

Electrical Specifications @ 25°C - Operating Temperature Range¹: -40°C to +130°C

Part Number	Inductance, L_S^2 (μH , +/- 20%)	DCR ($m\Omega$, Max)	I_{SAT}^3 (A_{DC})	I_{DC}^4 (A_{DC})	SRF ⁶ (MHz, Typ)
1D31A-100MC	10	6.3	50 (min)	12.5	19.0
1D31A-120MC	12	6.3	50 (min)	12.5	17.1
1D31A-150MC	15	6.9	42	12.0	12.8
1D31A-180MC	18	6.3	32	12.5	13.8
1D31A-220MC	22	6.9	31	12.0	10.0

- Operating Temp. Range:** The combination of ambient temperature and temperature rise.
- Inductance:** Tested at 100kHz, 1 V_{RMS}, Series
- I_{SAT} :** DC Current through the winding to cause a 25% (typ) drop in inductance.

- I_{DC} :** DC Current through the winding to cause 40°C temperature rise at 25°C ambient.
- Flammability Standard:** Meets UL 94V-0.
- SRF values are for reference only.

RoHS
COMPLIANT



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Specifications subject to change without prior notice.

TEL.: 800-729-2099

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