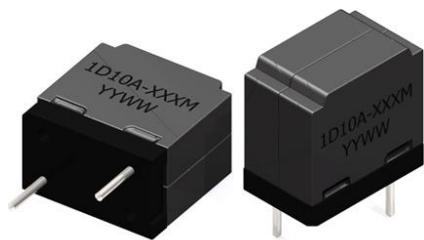


# 1D10A Series

## THT Shielded Class D Inductors



- Height: 11.0 mm (Max)
- Footprint: 11.5 mm (Max) x 7.5 mm (Max)
- Small Footprint
- Shielded Design for Lower EMI
- Ferrite Material Designed for Audio Applications

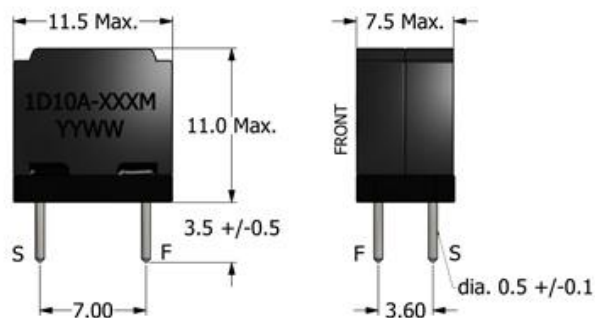
### APPLICATIONS

Class D Audio Amplifiers

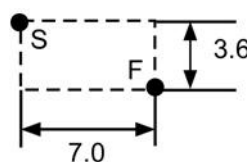
### PACKAGING

Pieces/Tray: 190  
Trays/Box: 12  
Pieces/Box: 2280

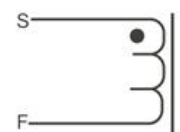
### Mechanical Drawing



### Mounting Dimensions



### Schematic



All dimensions are in mm

### Electrical Specifications @ 25°C - Operating Temperature Range<sup>1</sup>: -40°C to +130°C

Part Number	Inductance, $L_S^2$ ( $\mu\text{H}$ , +/- 20%)	DCR ( $m\Omega$ , Max)	$I_{SAT}^3$ ( $A_{DC}$ )	$I_{DC}^4$ ( $A_{DC}$ )	SRF <sup>6</sup> (MHz, Typ)
1D10A-100M	10	20.5	7.5	4.5	31.5
1D10A-150M	15	20.5	5.0	4.5	22.3
1D10A-220M	22	20.5	3.5	4.5	16.7
1D10A-330M	33	20.5	2.0	4.5	16.7

- Operating Temp. Range:** The combination of ambient temperature and temperature rise.
- Inductance:** Tested at 1kHz, 1 V<sub>RMS</sub>, Series
- $I_{SAT}$ :** DC Current through the winding to cause a 10% (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.



Specifications subject to change without prior notice.

TEL.: 800-729-2099

www.icecomponents.com

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