

Inductor for Digital Amplifier (Class-D)

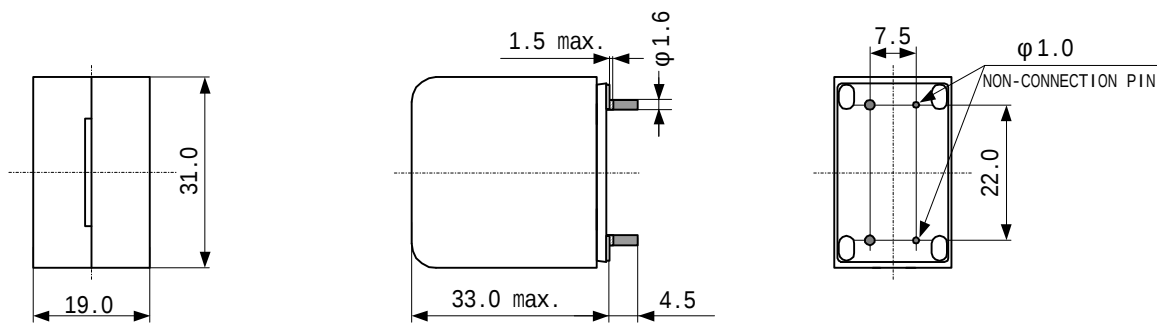
TYPE : 7G31A

■ Features

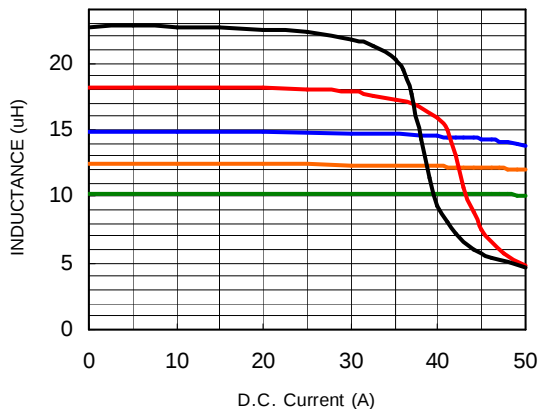
- Fixed inductor for LPF of Digital Amplifier (Class-D)
- Suitable for high outputs, such as AV amplifiers, industrial amplifiers and active speakers.
- Closed magnetic circuit type, Low DC resistance, High current and low loss
- Operating temperature : -40 ~ +125 (Including self temperature rise)
- Lead-free and RoHS-compliant product



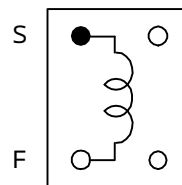
■ Dimensions (mm)



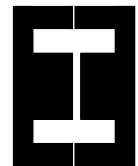
■ Saturation current characteristic



■ Connection (Bottom View)



■ Magnetic structure



■ Specifications

(Inductance range : 10 ~ 22 μ H)

Part No.	Inductance (μ H)	DC Resistance (m Ω) max.	DC Saturation Allowable Current (A)	Temperature Rise Allowable Current (A)
7G31A-100M-R	10 $\pm$ 20%	6.3	50 min	12.5
7G31A-120M-R	12 $\pm$ 20%	6.3	50 min	12.5
7G31A-150M-R	15 $\pm$ 20%	6.9	47.0	12.0
7G31A-180M-R	18 $\pm$ 20%	6.3	34.0	12.5
7G31A-220M-R	22 $\pm$ 20%	6.9	31.0	12.0

* Measurement Condition : 100kHz, 1V

* DC Saturation Allowable Current : An inductance drift is within -25% from the initial value by DC superimposed.

* Temperature Rise Allowable Current : A rise in temperature of surface of core is within 40 °C.



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