

## Power Choke – L0451-AL For ON Semiconductor MC33163 & MC34163



Part number	Inductance ±10%¹ (µH)	DCR max (Ohms)	SRF typ <sup>2</sup> (MHz)	Isat³ (A)	Irms <sup>4</sup> (A)
L0451-AL	180	0.052	3.2	14	7

- 1. Inductance measured at 1 kHz, 0.1 Vrms, 0 Adc using an Agilent/ HP 4192A impedance analyzer.
- 2. SRF measured on an Agilent/HP 8753D network analyzer.
- 3. DC current at which the inductance drops 10% (typ) from its value without current.
- 4. Current that causes a 40°C rise from 25°C ambient.
- 5. Electrical specifications at 25°C.

Refer to Doc 362 "Soldering Surface Mount Components" before soldering.

The L0451-AL is specified by ON Semiconductor for use with their MC33163 and MC34163 power switching regulators. This choke features a 10% inductance tolerance and 100 Vrms isolation from winding to core.

Request free evaluation samples by contacting Coilcraft or visiting www.coilcraft.com.

Core material Ferrite

Terminations RoHS tin-silver over copper

Weight 49 g

Ambient temperature -40°C to +85°C

Storage temperature Component: -40°C to +85°C.

Tray packaging: -40°C to +80°C

Moisture Sensitivity Level (MSL) 1 (unlimited floor life at <30°C / 85% relative humidity)

Failures in Time (FIT) / Mean Time Between Failures (MTBF) 38 per billion hours / 26,315,789 hours, calculated per Telcordia SR-332

Packaging 49 parts per tray

PCB washing Tested with pure water or alcohol only. For other solvents, see Doc787\_PCB\_Washing.pdf





