MLP Series Power Inductors

Multilayer Inductors for Power Circuits

TDK's MLP Series Inductors are multilayer inductors with a ferrite core designed for use in power circuits. A low-loss magnetic material is used so that a low-loss inductor for the power supply circuit can be achieved. The MLP Series Power Inductors are offered in a variety of product characteristics (which varies with case size). 'H' type product has low DC resistance and is optimal for when heavy load power efficiency is important. 'V' type product has good DC superimposition type characteristics and is optimal for when light load power efficiency is important. 'S' type product is the standard product type that includes a wide inductance value range and various sizes. 'W' type product has low DC resistance and large current.

Features

- Magnetically shielded
- Multilayer with a ferrite core
- Operating temperature range of –40°C to +125°C
- Storage temperature range of –40°C to +85°C after the circuit board is mounted

Ferrite Core

Commercial

Multilayer

Lead Free | Halogen Free | REACH | RoHS COMPLIANT

Applications

- Smart Phones
- Digital Cameras
- HDDs
- Tablet Terminals
- Video Cameras
- Power Supply Modules

MLP Series Information

Series	Case Size (mm)	Inductance Range (µH)	DC Resistance (Ω)	Rated Current (mA) max.	Quantity per Reel
MLP1005	1005	1.0	0.53 ± 30%	500	8,000
MLP1608	1608	0.47-2.2	0.20-0.36 ± 30%	800-600	4,000
MLP2012	2012	0.47-4.7	0.065-0.40 ± 30%	1300-600	4,000
MLP2016	2016	0.47-4.7	0.055±25% - 0.27±30%	1700-800	3,000
MLP2520	2520	0.47-10	0.033-0.28 ± 30%	2900-700	3,000