



MLP Series Power Inductor Kit

Commercial Grade Power Inductor Sample Kit

TDK's MLP Series Inductors are multilayer inductors with a ferrite core designed for use in power circuits. A low-loss material is used to contribute to overall efficiency of the power circuit. 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 inductor with ferrite core
- Conforms to RoHS directive, halogen free, & compatible with lead-free soldering
- Standard operating temperature range of -40°C to $+125^{\circ}\text{C}$
- Storage temperature range of -40°C to $+85^{\circ}\text{C}$ (after PC board mounting)

Ferrite Core

Commercial

Power



Applications

- Smart phones
- HDDs, SSDs, DVCs, DSCs
- Portable game devices
- Tablet Terminals
- Mobile display panels
- Compact power supply modules

[MLP1608](#)

[MLP2012](#)

[MLP2016](#)

[MLP2520](#)

MLP Series Power Inductor Kit Includes:

Case Sizes: 1608, 2012, 2016, 2520 (EIA 0603, 0805, 0806, 1008)

Inductance Range: 470nH-10 μ H

Current Rating (max.): 0.6-1.7A

DC Resistance (max.): 68.75-468m Ω

Kit contains 125 pieces total—5 pieces per value

Now Available at:



445-174887-KIT-ND

Click the link above for ordering information.

MLP Series Power Inductors Kit Includes:

Digi-Key Part Number	TDK Part Number	Case Size Inductance Value Tol
445-174887-KIT-ND	MLP1608H2R2BT0S1	1608 2.2μH±20%
	MLP1608V1R0BT0S1	1608 1μH±20%
	MLP1608V1R0DT0S1	1608 1μH±20%
	MLP1608V2R2BT0S1	1608 2.2μH±20%
	MLP2012H2R2MT0S1	2012 2.2μH±20%
	MLP2012HR54MT0S1	2012 540nH±20%
	MLP2012S1R5MT0S1	2012 1.5μH±20%
	MLP2012S2R2MT0S1	2012 2.2μH±20%
	MLP2012S3R3MT0S1	2012 3.3μH±20%
	MLP2012S4R7MT0S1	2012 4.7μH±20%
	MLP2012V2R2MT0S1	2012 2.2μH±20%
	MLP2016H2R2MT0S1	2016 2.2μH±20%
	MLP2016HR47MT0S1	2016 470nH±20%
	MLP2016S1R0MT0S1	2016 1μH±20%
	MLP2016S1R5MT0S1	2016 1.5μH±20%
	MLP2016S2R2MT0S1	2016 2.2μH±20%
	MLP2016S4R7MT0S1	2016 4.7μH±20%
	MLP2016V2R2MT0S1	2016 2.2μH±20%
	MLP2520S100MT0S1	2520 10μH±20%
	MLP2520S1R0MT0S1	2520 1μH±20%
	MLP2520S2R2MT0S1	2520 2.2μH±20%
	MLP2520S3R3ST0S1	2520 3.3μH±20%
	MLP2520S4R7MT0S1	2520 4.7μH±20%
MLP2520S4R7ST0S1	2520 4.7μH±20%	
MLP2520V3R3MT0S1	2520 3.3μH±20%	

■ PART NUMBER CONSTRUCTION

MLP	2520		W	R47		M	T		0S1		
Series name	LxW Dimensions (mm)		Characteristic type		Inductance (μH)		Height (mm max.)		Packaging style	Internal code	
	2520	2.5x2.0	W	Large current, low resistance	R47	0.47	M	1.0	T	Taping	0S1
			H	Low core loss (Emphasized DC resistance)	1R0	1.0	S	1.2			
			V	Low core loss (Emphasized DC bias characteristics)							
			S	STD product							

**Note: W characteristic type is available in the full series (not included in sample kit)*