EVSK-004 Power Inductor Sample Kit

MPL-AL Low-Resistance Molded Inductor Series, Sizes 4020/5030/5050/6050/6060

DESCRIPTION

The MPL-AL series offers low DCR and ACR, as well as a flat-wire construction, which provides even higher current ratings than round-wire molded inductors.

APPLICATIONS

- Battery-Powered Devices
- High Switching Frequency SMPS
- High-Current SMPS
- POL Converters
- Embedded Computing
- Portable Devices

FEATURES

- Molded Construction
- Low Audible Noise
- Low DCR
- Soft Saturation
- Stable across High Temperatures
- RoHS/REACH-Compliant, Halogen-Free

INCLUDED IN THIS SAMPLE KIT

Order Code	L (µH)	R_{DC} (mΩ)	I_R (A)	I_{SAT} (A)	Units
MPL-AL4020-1R0	1.0	10.1	7.9	8.6	9
MPL-AL4020-2R2	2.2	21.5	5.5	6.2	9
MPL-AL4020-3R3	3.3	34.5	4.4	5.2	9
MPL-AL4020-4R7	4.7	52.2	3.65	4.2	9
MPL-AL5030-R82	0.82	5	12.8	18	9
MPL-AL5030-1R0	1.0	6.5	11.2	16	9
MPL-AL5030-2R2	2.2	12.3	8.2	11	9
MPL-AL5030-3R3	3.3	21	6	10	9
MPL-AL5030-4R7	4.7	33	5.3	8	9
MPL-AL5050-5R6	5.6	20	6.8	8	9
MPL-AL5050-6R8	6.8	25	6.1	7.6	9
MPL-AL5050-8R2	8.2	28	5.8	7.2	9
MPL-AL5050-100	10	37	4.8	5.5	9
MPL-AL6050-R82	0.82	3.9	16.9	24	9
MPL-AL6050-1R0	1.0	4.3	16.2	21	9
MPL-AL6050-2R2	2.2	8.3	12	15	9
MPL-AL6050-3R3	3.3	11.7	10.1	12	9
MPL-AL6050-4R7	4.7	16.5	7.5	11	9
MPL-AL6050-5R6	5.6	19	7	10	9
MPL-AL6060-4R7	4.7	12	10	9	9
MPL-AL6060-5R6	5.6	13	9.4	8.6	9
MPL-AL6060-6R8	6.8	16	8.5	8	9
MPL-AL6060-8R2	8.2	19	8	7	9
MPL-AL6060-100	10	24	6.9	6.6	9

PRODUCT PACKAGE AND DIMENSIONS

Dimensions	
200mmx36mmx140mm	(LxHxW)

ORDERING INFORMATION

Order Code	Description	Series	Package(s)
EVSK-004	Inductor sample kit	MPL-AL	4020/5030/5050/6050/6060

ADDITIONAL SAMPLE KITS AVAILABLE

Order Code	Description	Series	Package(s)
EVSK-001	Inductor sample kit	MPL-AT	2010/2512/2514
EVSK-002	Inductor sample kit	MPL-AY	3020/4020
EVSK-003	Inductor sample kit	MPL-AY	1050/1265
EVSK-005	Inductor sample kit	MPL-SE	4030/5040/6040
EVSK-006	Inductor sample kit	MPL-SE	2512

Order directly from MonolithicPower.com or our distributors.

REVISION HISTORY

Revision #	Revision Date	Description	Pages Updated
1.0	3/21/2022	Initial Release	-