



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

All MPS parts are lead-free, halogen-free, and adhere to the RoHS directive. For MPS green status, please visit the MPS website under Quality Assurance. "MPS", the MPS logo, and "Simple, Easy Solutions" are registered trademarks of Monolithic Power Systems, Inc. or its subsidiaries.

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	-

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