



EVSK-002 Power Inductor Sample Kit

MPL-AY Molded Inductor Series,
Sizes 3020/4020



DESCRIPTION

The MPL-AY series offers low DCR and ACR, as well as the ability to handle high currents.

APPLICATIONS

- Battery-Powered Devices
- High Switching Frequency SMPS
- High-Current SMPS
- POL Converters
- Portable Devices
- Input Filters

FEATURES

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

INCLUDED IN THIS SAMPLE KIT

| Order Code | L (μ H) | R _{DC} (m Ω) | I _R (A) | I _{SAT} (A) | Units |
|----------------|--------------|-------------------------------|--------------------|----------------------|-------|
| MPL-AY3020-R47 | 0.47 | 19.5 | 6.3 | 9 | 15 |
| MPL-AY3020-R68 | 0.68 | 26 | 5.15 | 8.6 | 15 |
| MPL-AY3020-R82 | 0.82 | 28 | 4.7 | 8 | 15 |
| MPL-AY3020-1R0 | 1.0 | 30 | 4.3 | 6.2 | 15 |
| MPL-AY3020-1R5 | 1.5 | 35 | 3.4 | 5.9 | 15 |
| MPL-AY3020-2R2 | 2.2 | 64 | 3.0 | 5.3 | 15 |
| MPL-AY3020-3R3 | 3.3 | 121 | 2.5 | 3.7 | 15 |
| MPL-AY3020-4R7 | 4.7 | 173 | 2.0 | 3.1 | 15 |
| MPL-AY3020-5R6 | 5.6 | 209 | 1.8 | 2.8 | 15 |
| MPL-AY3020-6R8 | 6.8 | 250 | 1.65 | 2.6 | 15 |
| MPL-AY3020-8R2 | 8.2 | 345 | 1.4 | 1.95 | 15 |
| MPL-AY3020-100 | 10 | 370 | 1.3 | 1.75 | 15 |
| MPL-AY4020-5R6 | 5.6 | 97 | 2.45 | 2.6 | 15 |
| MPL-AY4020-6R8 | 6.8 | 129 | 2.2 | 2.4 | 15 |
| MPL-AY4020-8R2 | 8.2 | 136 | 2.1 | 2.1 | 15 |
| MPL-AY4020-100 | 10 | 163 | 1.9 | 2 | 15 |

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.

PRODUCT PACKAGE AND DIMENSIONS
Dimensions

200mmx36mmx140mm (LxHxW)


ORDERING INFORMATION

| Order Code | Description | Series | Package(s) |
|------------|---------------------|--------|------------|
| EVSK-002 | Inductor sample kit | MPL-AY | 3020/4020 |

ADDITIONAL SAMPLE KITS AVAILABLE

| Order Code | Description | Series | Package(s) |
|------------|---------------------|--------|--------------------------|
| EVSK-001 | Inductor sample kit | MPL-AT | 2010/2512/2514 |
| EVSK-003 | Inductor sample kit | MPL-AY | 1050/1265 |
| EVSK-004 | Inductor sample kit | MPL-AL | 4020/5030/5050/6050/6060 |
| 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 | 3/17/2022 | Initial Release | - |

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