



### 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 (μH)	R <sub>DC</sub> (mΩ)	I <sub>R</sub> (A)	I <sub>SAT</sub> (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](http://MonolithicPower.com) or our distributors.**



## REVISION HISTORY

Revision #	Revision Date	Description	Pages Updated
1.0	3/17/2022	Initial Release	-

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