

High power SMT shielded drum core inductors provide high efficiency in smaller package sizes



DR10



DR



DRQ

Eaton's DR family of single and dual winding Inductors provide design flexibility with the highest performance and current ratings in its class.

High power density & performance

- These high energy density SMT inductors provide the highest performance levels in the smallest, most cost-effective packages.
- Optimized best peak current performance can reduce the need for using a larger package size.
- High efficiency delivers lowest high-frequency losses.
- Operating temperature -40 °C to +125 °C.
- RoHS compliant and lead free.
- Ideal for cost-sensitive, space-constrained applications.

DR inductors

- Designed for buck and boost converters.
- Inductance range from 0.33 μ H to 1 mH
- Available in 7.5, 10.5 and 12.5 mm square from 3 to 8 mm high.

DRQ inductors

- Designed for SEPIC, flyback, 1:1 isolation transformer, and buck and boost converters.
- Two windings permit use as a coupled inductor or combined in series for high inductance.
- Inductance range from 0.33 μ H to 4.02 mH

- 200 Vac isolation between windings.
- Available in 7.5 and 12.5 mm square from 3.55 to 8 mm high.

Applications

- Computer, DVD players, and portable power devices
- Notebook power
- LCD panels
- LED driver
- Wireless modems
- ADSL line cards
- Battery chargers
- Video cards

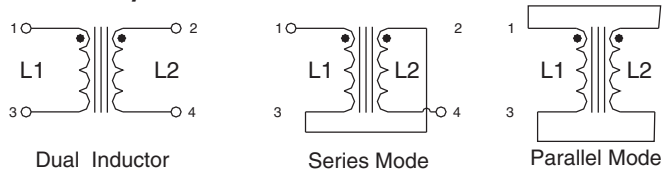


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Specifications

	DR10 Family (30, 40, 50)	DRQ Family (73, 74, 125, 127)	DR Family (73, 74, 124, 125, 127)
Inductance range	0.7 μ H-1mH	0.33 μ H-4.02mH	0.33 μ H-1mH
Current range	0.43-13.5A	0.13-56A	0.25-56A
Footprint/profile (mm)	W x L x H	W x L x H	W x L x H
DR1030	10.3 x 10.5 x 3.0		
DR1040	10.3 x 10.5 x 4.0		
DR1050	10.3 x 10.5 x 5.0		
DRQ & DR73		7.6 x 7.6 x 3.55	7.6 x 7.6 x 3.55
DRQ & DR74		7.6 x 7.6 x 4.45	7.6 x 7.6 x 4.35
DR124			12.3 x 12.3 x 4.5
DRQ & DR125		12.5 x 12.5 x 6.0	12.5 x 12.5 x 6.0
DRQ & DR127		12.5 x 12.5 x 8.0	12.5 x 12.5 x 8.0

DRQ Family schematics



Environmental Data - DR10, DRQ and DR Series:

- Storage temperature range: -40 °C to +125 °C
- Operating temperature range: -40 °C to +125 °C (ambient plus self-temperature rise)
- Solder reflow temperature: JEDEC-J-STD-020 (Latest revision) compliant

Packaging:

- Supplied in tape and reel packaging. Parts per reel: DR1030 (1000), DR1040 (850), DR1050 (500), DRQ73 (1350), DRQ74 (1100), DRQ125 (600), DRQ127 (350), DR73 (1350), DR74 (1100), DR124 (750), DR125 (600), DR127 (350)

Technical Application Assistance

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