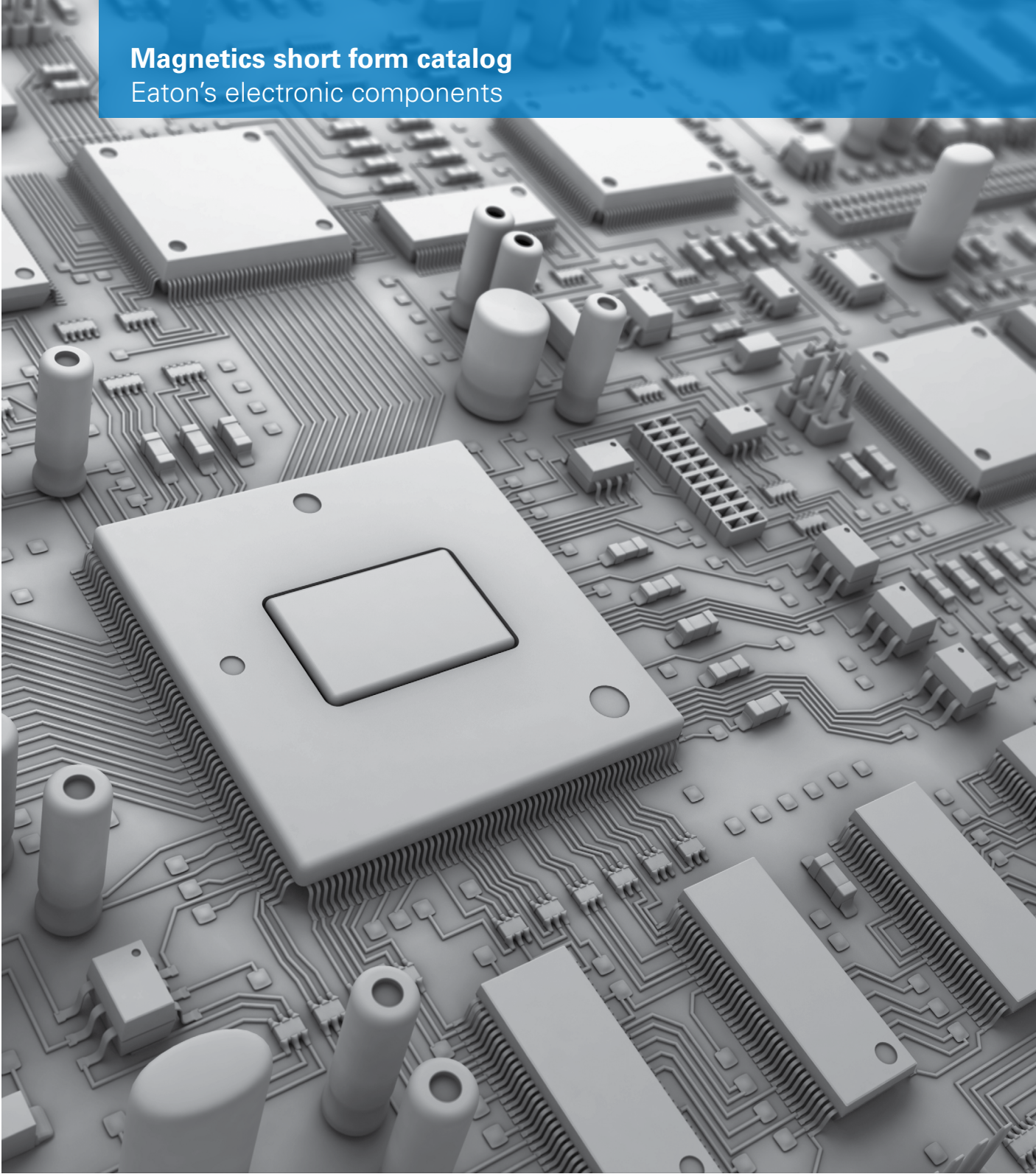


Magnetics short form catalog
Eaton's electronic components



EATON

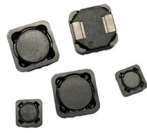
Powering Business Worldwide

Applications

| | Automotive | | | | | | Consumer | | | | Computing | | | | Industrial | | | | Medical | | | | | |
|--------------------------|----------------|------|----------|--------------|----------|----------------|-----------------------|------------------------|-----------|---------------|--------------------|------------|---------|---------|---------------------|------------------------|--------------------------|--------------------|-------------------------|---------------------|------------------------|----------|------------|-----------|
| | Under-the-Hood | ADAS | Lighting | Infotainment | Interior | Drive/Traction | Computing/Peripherals | Personal Communication | Wearables | Set-Top Boxes | TV/Monitor/Display | Appliances | Servers | Storage | Wired Communication | Wireless Communication | Manufacturing Automation | Test & Measurement | Building & Home Control | Lighting & Security | Mission Critical Power | Personal | Consumable | Equipment |
| Chip inductors | MCL | | | | | | X | X | X | X | X | X | X | X | X | X | X | X | X | | | | X | X |
| | WCL | | | | | | X | X | X | X | X | X | X | X | X | X | X | X | X | | | | X | X |
| | MCLA | | X | | X | X | | | | | | | | | | | | | | | | | | |
| | WCLA | | X | | X | X | | | | | | | | | | | | | | | | | | |
| High current | MPI | | | | | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X |
| | MPIA | | X | X | X | X | | | | | | | | | | | | | | | | | | |
| | HCM | | | | | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | | |
| | HCx | | | | | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | | |
| | HCMA | | X | X | X | X | | | | | | | | | | | | | | | | | | |
| | HCM1A | X | X | X | X | X | X | | | | | | | | | | | | | | | | | |
| Multi-phase & V-core | HCM1AV2 | X | X | X | X | X | | | | | | | | | | | | | | | | | | |
| | FPx | | | | | | X | X | X | X | | X | X | X | X | | | | | | | | | |
| | FP | | | | | | X | | | X | | X | X | X | X | | | | | | | | | |
| | CL | | | | | | X | | | X | | X | X | X | X | | | | | | | | | |
| Shielded drum | DR | | | | | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X |
| | DRA | X | X | X | X | X | | | | | | | | | | | | | | | | | | |
| | DRAQ | X | X | X | X | X | | | | | | | | | | | | | | | | | | |
| | DRAP | X | X | X | X | X | | | | | | | | | | | | | | | | | | |
| | SD | | | | | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X |
| | DRQ | | | | | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X |
| SMD power | SDQ | | | | | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X |
| | LD | | | | | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X |
| | UP | | | | | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X |
| | CTX_1x | | | | | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X |
| Common-Through-hole mode | LCPI | | | | | | X | | | X | X | X | X | X | X | X | X | X | X | X | X | | | X |
| | RL | | | | | | X | | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X |
| | CMS | | | | | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X |
| | ACE1V | | X | | X | X | | | | | | | | | | | | | | | | | | |

Automotive products

DRA, DRAP, DRAQ, HCMA, HCM1A, HCM1AV2, MPIA, MCLA, WCLA, ACE1V



Chip inductors

MCL, WCL



High current inductors

MPI, HCM, HCx, FPx



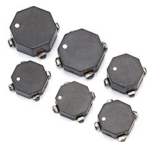
Shielded drum inductors

DR, SD, DRQ, SDQ



Surface mount power inductors

LD, UP (Uni-Pac), CTX_-1x (Octa-Pac, Econo-Pac)



Multi-phase & V-core

FP, CL



Through-hole power inductors

LCPI, RL



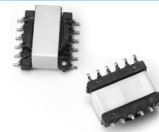
Common-mode inductors

CMS



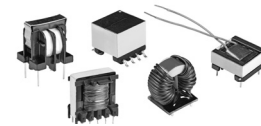
Transformers

VP (Versa-Pac), POE



Custom magnetics

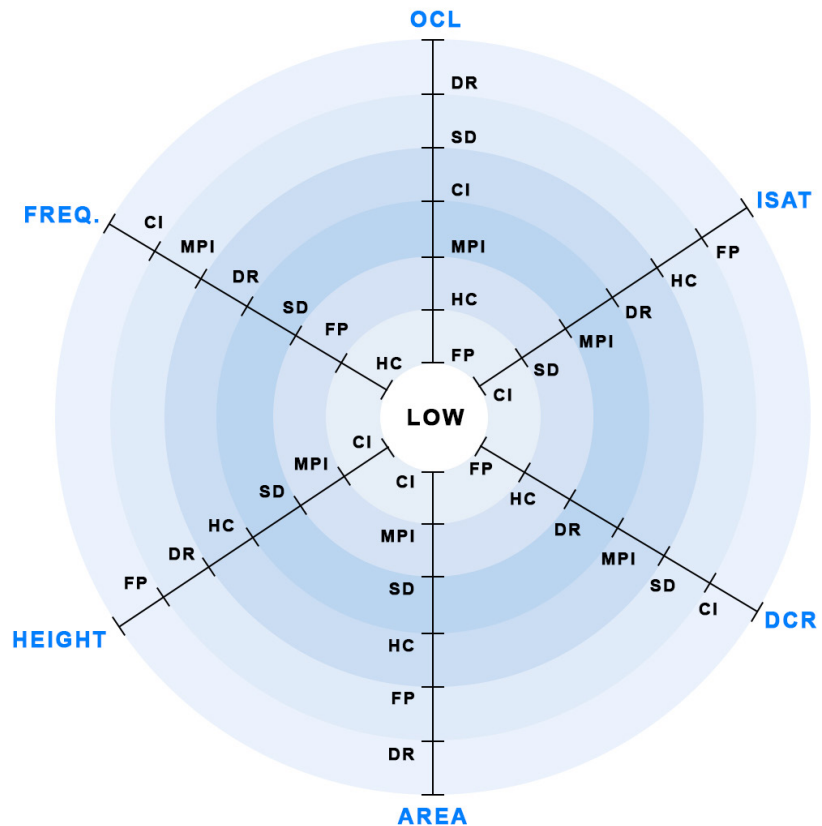
Inductors and Transformers



Quick-look product selector

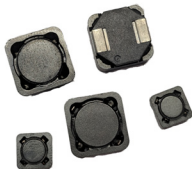
Use the radar chart to quickly identify products to meet your requirements.

- DR = DR, DRA, DRQ, DRAP, DRAQ
- SD = SD, SDQ
- FP = FP/FP2/FP4, FPV, FPT, CL, CLB, HC1/2/3, HCF
- HC = HCM, HCMA, HCM1A, HCM1AV2, HCP, HC7/8/9, FP3
- MPI = MPI, MPIA
- CI = MCL, WCL, MCLA, WCLA



DRA and DRAQ Automotive grade high power shielded inductors

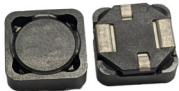
- AEC-Q200 qualified
- +165 °C maximum total temperature operation
- Ferrite core material
- Rugged construction for high shock and vibration environments
- Magnetically shielded - reduces EMI
- Dual winding option, DRAQ



| | Inductance (µH) | | Isat Current (A) | | Irms Current (A) | | DCR Max. (Ω) | | Size (mm) | | | |
|-----------------------|-----------------|------|------------------|------|------------------|------|--------------|------|-----------|------|-----|--|
| | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | L | W | H | |
| Single winding | | | | | | | | | | | | |
| DRA73 | 0.29 | 992 | 0.24 | 14.8 | 0.24 | 8.4 | 0.005 | 6.18 | 7.6 | 7.6 | 3.6 | |
| DRA74 | 0.29 | 1002 | 0.29 | 18.4 | 0.26 | 7.3 | 0.006 | 5.02 | 7.6 | 7.6 | 4.4 | |
| DRA124 | 0.42 | 1001 | 0.63 | 30.8 | 0.38 | 13.5 | 0.003 | 3.52 | 12.5 | 12.5 | 4.5 | |
| DRA125 | 0.45 | 993 | 0.70 | 33.2 | 0.55 | 14.7 | 0.003 | 2.13 | 12.5 | 12.5 | 6.0 | |
| DRA127 | 0.41 | 999 | 1.10 | 56.0 | 0.60 | 15.9 | 0.003 | 2.10 | 12.5 | 12.5 | 8.0 | |
| Dual winding | | | | | | | | | | | | |
| DRAQ75 | 4.48 | 866 | 0.31 | 4.4 | 0.38 | 4.5 | 0.031 | 4.36 | 7.6 | 7.6 | 4.5 | |
| DRAQ127 | 9.63 | 192 | 2.54 | 11.2 | 1.31 | 6.0 | 0.022 | 0.44 | 12.5 | 12.5 | 8.0 | |

DRAP Automotive grade high power shielded inductors

- AEC-Q200 qualified
- Secure four terminal mounting ideal for severe vibration environments up to 30 G
- + 165 °C maximum total temperature operation
- Ferrite core material
- Magnetically shielded - reduces EMI



| | Inductance (µH) | | Isat Current (A) | | Irms Current (A) | | DCR Max. (Ω) | | Size (mm) | | | |
|-----------------------|-----------------|------|------------------|------|------------------|------|--------------|------|-----------|------|-----|--|
| | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | L | W | H | |
| Single winding | | | | | | | | | | | | |
| DRAP124 | 0.42 | 1001 | 0.63 | 30.8 | 0.38 | 13.5 | 0.003 | 3.52 | 12.5 | 12.5 | 4.6 | |
| DRAP125 | 0.45 | 993 | 0.70 | 33.2 | 0.55 | 14.7 | 0.003 | 2.13 | 12.5 | 12.5 | 6.1 | |
| DRAP127 | 0.41 | 999 | 1.10 | 56.0 | 0.60 | 15.9 | 0.003 | 2.10 | 12.5 | 12.5 | 8.1 | |

HCM1A Automotive grade high current shielded inductors

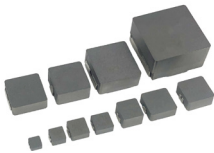
- AEC-Q200 qualified
- +155 °C maximum total temperature operation
- Alloy powder core material
- Low core losses
- Magnetically shielded



| | Inductance (µH) | | Isat Current (A) | | Irms Current (A) | | DCR Max. (mΩ) | | Size (mm) | | |
|-----------|-----------------|------|------------------|------|------------------|------|---------------|------|-----------|------|-----|
| | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | L | W | H |
| HCM1A0503 | 0.2 | 10 | 2.3 | 24 | 2.4 | 16 | 2.3 | 108 | 5.5 | 5.3 | 3.0 |
| HCM1A0703 | 0.1 | 33 | 2.3 | 36 | 1.6 | 22 | 1.4 | 242 | 7.4 | 7.0 | 3.0 |
| HCM1A0805 | 3.3 | 100 | 2.7 | 10 | 1.5 | 8 | 10.0 | 265 | 8.3 | 8.0 | 5.4 |
| HCM1A1104 | 0.2 | 100 | 3.0 | 40 | 1.9 | 32 | 0.7 | 265 | 11.5 | 10.3 | 4.0 |
| HCM1A1305 | 0.1 | 33 | 7.0 | 80 | 4.0 | 43 | 0.6 | 86 | 13.8 | 12.5 | 5.0 |
| HCM1A1307 | 0.2 | 56 | 4.6 | 100 | 4.6 | 48 | 0.7 | 65 | 13.7 | 13.0 | 6.5 |
| HCM1A1707 | 1.0 | 68 | 6.0 | 48 | 5.2 | 33 | 1.6 | 60 | 17.5 | 17.2 | 7.0 |

HCM1AV2 Automotive grade high current shielded inductors


- AEC-Q200 qualified
- High current carrying capacity in a variety of footprints
- Magnetically shielded, Low EMI
- Rugged construction
- Moisture sensitivity level (MSL): 1



| | Inductance (µH) | | Isat Current (A) | | Irms Current (A) | | DCR Max. (mΩ) | | Size (mm) | | |
|-------------|-----------------|------|------------------|------|------------------|------|---------------|------|-----------|------|------|
| | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | L | W | H |
| HCM1A4020V2 | 0.1 | 15 | 1.8 | 22 | 1.3 | 16 | 4.0 | 384 | 4.8 | 4.5 | 2.0 |
| HCM1A0503V2 | 0.2 | 10 | 2.3 | 20 | 2.8 | 21 | 2.0 | 108 | 5.7 | 5.4 | 3.0 |
| HCM1A0703V2 | 0.1 | 33 | 2.3 | 54 | 1.6 | 29 | 0.8 | 242 | 7.3 | 6.8 | 3.0 |
| HCM1A0805V2 | 3.3 | 68 | 1.9 | 8 | 2.1 | 9 | 10 | 175 | 8.4 | 8.0 | 5.4 |
| HCM1A1104V2 | 0.2 | 68 | 3.0 | 60 | 2.2 | 43 | 0.7 | 210 | 11.2 | 10.3 | 4.0 |
| HCM1A1105V2 | 0.7 | 68 | 4.0 | 30 | 2.3 | 25 | 1.9 | 211 | 11.2 | 10.3 | 5.0 |
| HCM1A1305V2 | 0.1 | 33 | 5.2 | 80 | 4.5 | 48 | 0.6 | 58 | 13.8 | 12.9 | 5.0 |
| HCM1A1307V2 | 0.2 | 56 | 4.3 | 100 | 4.0 | 52 | 0.6 | 65 | 13.8 | 12.9 | 6.5 |
| HCM1A1707V2 | 1.0 | 68 | 6.8 | 57 | 5.0 | 36 | 1.5 | 60 | 17.5 | 17.2 | 7.0 |
| HCM1A2213V2 | 0.5 | 100 | 8.0 | 100 | 6.4 | 66 | 0.5 | 36 | 22.8 | 22.3 | 13.0 |

HCMA Automotive grade high current shielded inductors


- AEC-Q200 qualified
- +125 °C maximum total temperature operation
- Iron powder core material
- Low core losses
- Magnetically shielded



| | Inductance (μH) | | Isat Current (A) | | Irms Current (A) | | DCR Max. (mΩ) | | Size (mm) | | |
|----------|-----------------|------|------------------|------|------------------|------|---------------|------|-----------|------|-----|
| | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | L | W | H |
| HCMA0503 | 0.2 | 22 | 1.9 | 21 | 1.9 | 22 | 2.3 | 270 | 5.5 | 5.3 | 3.0 |
| HCMA0703 | 0.2 | 33 | 2.2 | 52 | 1.8 | 26 | 2.5 | 242 | 7.4 | 7.0 | 3.0 |
| HCMA1104 | 0.2 | 22 | 5.5 | 45 | 5.0 | 32 | 0.7 | 66 | 11.5 | 10.3 | 4.0 |
| HCMA1305 | 0.1 | 33 | 8.0 | 118 | 5.2 | 55 | 0.6 | 86 | 13.8 | 12.5 | 5.0 |
| HCMA1707 | 1.5 | 68 | 6.5 | 40 | 5.2 | 40 | 2.2 | 85 | 17.5 | 17.2 | 7.0 |

MCLA Multilayer automotive grade RF chip inductors


- AEC-Q200 Grade 3 qualified
- High current withstand capability with low DCR
- Monolithic construction yields high reliability
- High Q
- Flexible footprint options



| | Inductance (μH) | | SRF (MHz) | | I Rated (mA) | | DCR Max. (mΩ) | | Size (mm) | | |
|------------|-----------------|------|-----------|-------|--------------|------|---------------|------|-----------|-----|-----|
| | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | L | W | H |
| MCLA1005V2 | 0.001 | 0.3 | 350 | 10000 | 50 | 400 | 100 | 7000 | 1.2 | 0.7 | 0.7 |
| MCLA1608V1 | 0.047 | 3.9 | 35 | 260 | 15 | 50 | 200 | 1300 | 1.8 | 1.0 | 1.0 |
| MCLA1608V2 | 0.001 | 0.5 | 250 | 10000 | 150 | 500 | 50 | 3600 | 1.8 | 1.0 | 1.0 |
| MCLA2012V1 | 0.047 | 12.0 | 22 | 320 | 15 | 300 | 150 | 1150 | 2.2 | 1.4 | 1.1 |
| MCLA3216V1 | 0.047 | 12.0 | 22 | 320 | 15 | 300 | 150 | 900 | 3.4 | 1.8 | 1.1 |

ACE1V Automotive grade common-mode chip inductors


- AEC-Q200 qualified
- High filtering capability
- Low parasitic capacitance
- Rugged construction
- Standard footprints



| | Impedance Z (Ω) | | Idc Current Max. (mA) | | Rated Voltage (V) | | DCR Max. (mΩ) | | Size (mm) | | |
|-----------|-----------------|-------|-----------------------|------|-------------------|------|---------------|------|-----------|-----|---|
| | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | L | W | H |
| ACE1V2012 | 90 | 2200 | 150 | 400 | 50 | 300 | 2000 | 2.2 | 1.4 | 1.4 | |
| ACE1V3225 | 300 | 5100 | 70 | 300 | 80 | 400 | 4800 | 3.4 | 2.7 | 2.5 | |
| ACE1V4532 | 300 | 15000 | 100 | 250 | 50 | 600 | 4500 | 4.7 | 3.4 | 3.0 | |

WCLA Wire wound automotive grade RF chip inductors


- AEC-Q200 Grade 3 qualified
- High current withstand capability with low DCR
- High Q
- Flexible footprint options



| | Inductance (μH) | | SRF (MHz) | | I Rated (mA) | | DCR Max. (mΩ) | | Size (mm) | | |
|------------|-----------------|------|-----------|-------|--------------|------|---------------|------|-----------|-----|-----|
| | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | L | W | H |
| WCLA1005V1 | 0.001 | 0.1 | 1100 | 10000 | 30 | 1360 | 45 | 2200 | 1.2 | 0.7 | 0.6 |
| WCLA1608V1 | 0.002 | 0.5 | 700 | 12500 | 75 | 700 | 40 | 7000 | 1.8 | 1.1 | 1.0 |
| WCLA2012V1 | 0.002 | 2.2 | 50 | 8500 | 150 | 800 | 30 | 4200 | 2.3 | 1.7 | 1.5 |

MPIA Automotive grade low profile, high power density shielded inductors

- AEC-Q200 qualified
- Soft saturation roll-off
- +125 °C maximum total temperature operation
- Rugged construction
- Magnetically shielded



| | Inductance (μH) | | Isat Current (A) | | Irms Current (A) | | DCR Max. (mΩ) | | Size (mm) | | |
|-----------|-----------------|------|------------------|------|------------------|------|---------------|------|-----------|-----|---------|
| | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | L | W | H |
| MPIA25-V2 | 0.3 | 4.7 | 1.9 | 7.5 | 1.4 | 5 | 19 | 235 | 2.7 | 2.2 | 1.0-1.2 |
| MPIA40-V2 | 0.1 | 22.0 | 1.7 | 22.0 | 1.2 | 16 | 5 | 402 | 4.7 | 4.3 | 1.2-2.0 |

Computing (V-core, multi-phase, VRM, POL) solutions

FP high current inductors

- High frequency
- Ferrite core material
- Tight tolerance DCR
- High current carrying capacity
- Small size, low profile, open bottom, lower DCR, and vertical versions



| | Inductance (nH) | | Isat Current (A) | | Irms Current (A) | | DCR Typ. (mΩ) | | Size (mm) | | |
|---------------|-----------------|------|------------------|------|------------------|------|---------------|-------|-----------|-----------|-----------|
| | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | L | W | H |
| FP0404 | 22 | 170 | 14 | 9 | | 19 | | 0.32 | 4.0 | 4.0 | 3.0 - 4.0 |
| FP0505R | | 100 | | 34 | | 30 | | 0.38 | 5.0 | 5.0 | 4.8 |
| FP0507V | | 50 | | 80 | | 35 | | 0.47 | 5.2 | 5.0 | 6.6 |
| FP0705 | 72 | 220 | 20 | 65 | 32 | 43 | 0.25 | 0.46 | 7.0 | 7.0 | 5.0 |
| FP2 | 50 | 500 | 9 | 70 | 16 | 39 | 0.13 | 0.65 | 7.2 | 6.7 | 3.0 - 5.0 |
| FP0707 | | 110 | | 55 | | 45 | | 0.32 | 7.2 | 7.2 | 7.0 |
| FP0708 | 72 | 200 | 36 | 90 | | 44 | | 0.35 | 8.5 | 7.0 | 7.2 |
| FP0805 | 32 | 200 | 20 | 110 | | 65 | | 0.17 | 7.6 | 7.5 | 5.0 |
| FP0807 | 70 | 220 | 35 | 108 | | 45 | | 0.50 | 7.6 | 7.4 | 7.0 |
| FP0906 | 100 | 300 | 33 | 94 | | 51 | | 0.29 | 9.6 | 6.5 | 8.0 |
| FP0910V | 100 | 470 | 17 | 80 | | 44 | 0.13 | 0.40 | 9.0 | 5.0 | 9.5 |
| FP1005 | 85 | 220 | 33 | 90 | 45 | 53 | 0.39 | 0.70 | 10.2 | 7.0 | 5.0 |
| FP1006 | 85 | 220 | 38 | 100 | 45 | 53 | 0.27 | 0.36 | 10.2 | 8.0 | 6.0 |
| FP4 | 100 | 200 | 30 | 64 | 33 | 40 | 0.42 | 0.65 | 10.2 | 6.8 | 5.0 |
| FP1007 | 115 | 300 | 32 | 94 | 51 | 61 | 0.29 | 0.48 | 10.4 | 8.0 | 6.5 - 7.5 |
| FP1007R6 | 150 | 470 | 24 | 75 | | 61 | | 0.29 | 10.5 | 8.0 | 7.0 |
| FP1008R5/R6 | 100 | 300 | 36 | 103 | 74 | 79 | 0.17 | 18.00 | 10.8 | 8.0 | 8.0 |
| FP1008L | 100 | 150 | 50 | 75 | | 65 | | 0.17 | 9.6 | 6.4 - 7.5 | 8.0 |
| FP1008R7 | 100 | 180 | 60 | 100 | | 72 | | 0.12 | 10.8 | 8.2 | 8.2 |
| FP1010R | 70 | 330 | 20 | 124 | 50 | 78 | 0.15 | 0.19 | 10.0 | 7.0 | 10.0 |
| FP1010V | 100 | 470 | 30 | 117 | 34 | 68 | 0.15 | 0.42 | 9.6 | 6.4 | 10.0 |
| FP1012V | 70 | 470 | 22 | 130 | | 84 | | 0.14 | 10.0 | 6.0 | 12.0 |
| FP1105 | 100 | 226 | 39 | 81 | | 46 | | 0.35 | 11.0 | 8.0 | 4.9 |
| FP1107R | 70 | 510 | 18 | 140 | 42 | 55 | 0.29 | 0.47 | 11.0 | 7.2 | 7.2 - 7.5 |
| FP1108 | 100 | 210 | 55 | 100 | | 65 | | 0.29 | 11.0 | 8.0 | 7.5 |
| FP1108B | | 180 | | 63 | | 40 | | 0.29 | 11.6 | 8.0 | 8.0 |
| FP1108L1/L2 | 105 | 180 | 47 | 81 | 48 | 64 | 0.10 | 0.18 | 11.0 | 8.2 | 8.3 |
| FP1108L3/L4 | 105 | 180 | 33 | 57 | | 91 | | 0.05 | 11.0 | 8.0 | 8.0 |
| CTX01-18738-R | | 210 | | 55 | | 50 | | 0.29 | 11.0 | 8.0 | 7.5 |
| FP1109 | 205 | 950 | 12 | 69 | | 35 | | 0.42 | 11.2 | 11.2 | 9.0 |
| FP1109B | 150 | 330 | 38 | 80 | | 55 | | 0.19 | 11.0 | 8.2 | 9.0 |
| FP1110V1 | 195 | 320 | 42 | 70 | | 61 | | 0.23 | 10.5 | 7.5 | 9.5 |
| FP1110V2 | | 200 | | 65 | | 61 | | 0.18 | 10.5 | 6.2 | 9.5 |
| FP1206 | 120 | 400 | 24 | 88 | | 50 | | 0.43 | 12.0 | 8.0 | 6.0 |
| FP1208 | 150 | 250 | 55 | 85 | | 50 | | 0.29 | 12.1 | 8.0 | 8.0 |
| FP1308R | 110 | 440 | 37 | 120 | 45 | 68 | 0.18 | 0.53 | 13.4 | 12.7 | 8.0 |
| FP1309B | 100 | 150 | 80 | 100 | | 60 | | 0.19 | 12.8 | 8.3 | 8.8 |
| FP1505 | 100 | 400 | 24 | 105 | | 53 | | 0.47 | 15.0 | 7.0 | 5.0 |
| FP2207 | | 230 | | 75 | | 50 | | 0.54 | 22.5 | 8.2 | 7.3 |

High current inductors – zero voltage switching (ZVS)

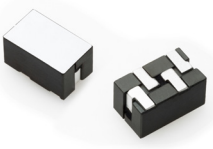
- Ferrite core material
- Magnetically shielded
- Compatible with Picor® Cool-Power® ZVS buck and buck-boost regulator families



| | Inductance (nH) | | Isat Current (A) | | Irms Current (A) | | DCR Typ. (mΩ) | | Size (mm) | | |
|-------------------------------------------------|-----------------|------|------------------|------|------------------|------|---------------|------|-----------|------|-----|
| | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | L | W | H |
| Dual conductor and two-turn construction | | | | | | | | | | | |
| FPT705 | 170 | 300 | 17 | 31 | | 13 | | 0.7 | 7.5 | 8.3 | 5.3 |
| FPT1006 | 340 | 580 | 23 | 41 | | 19 | | 1.0 | 10.3 | 8.7 | 6.4 |
| FPV1507 | 500 | 650 | 31 | 40 | | 20 | | 1.2 | 15.1 | 8.6 | 6.6 |
| CTX01-19603-R | | 375 | | 52 | | 16 | | 1.3 | 15.1 | 8.6 | 6.6 |
| Single conductor and multi-turn winding | | | | | | | | | | | |
| FPV1006 | 85 | 150 | 45 | 81 | | 25 | | 0.4 | 10.3 | 8.7 | 6.4 |
| FP1507R | | 185 | | 40 | | 45 | | 0.5 | 15.1 | 8.5 | 6.7 |
| HCV1206 | 420 | 3000 | 13 | 42 | 11 | 16 | 3.15 | 7.4 | 12.7 | 10.2 | 5.1 |
| HCV1707 | | 480 | | 55 | | 32 | | 1.9 | 17.8 | 14.4 | 6.9 |

Multi-phase coupled inductors

- High current multi-phase inductor
- Ferrite core material
- Designed exclusively for use with Maxim® VPR-Devices



| | Number of phases | | Inductance per phase (nH) | | DCR typ. (mΩ) | Size (mm) | | |
|---------------|------------------|------|---------------------------|------|---------------|-------------|------|------|
| | Min. | Max. | Min. | Max. | Max. | L | W | H |
| CL0904 | 2 | 3 | 50 | | 0.35 | 20.5 - 27.8 | 8.5 | 4.0 |
| CL1108 | 2 | 5 | 50 | | 0.28 | 18.5 - 45.8 | 11.5 | 8.0 |
| CLA1108 | 2 | 4 | 50 | | 0.28 | 18.5 - 36.5 | 11.5 | 8.0 |
| CLB1108 | 2 | 5 | 50 | | 0.28 | 18.5 - 45.8 | 11.5 | 8.0 |
| CL0608 | | 2 | 100 | | 0.89 | 10.5 | 6.8 | 8.0 |
| CL1110-R | 2 | 6 | 100 | | 0.63 | 10.0 - 29.0 | 11.8 | 10.5 |
| CL1208 | 2 | 6 | 100 | | 0.45 | 2.5 - 36.5 | 12.0 | 8.5 |
| CLH1110R1 | 3 | 6 | 50 | | 0.23 | 23 - 45.8 | 11.5 | 10.0 |
| CPL/CPLA/CPLE | 2 | 6 | 50 | | 0.60 | 18.5 - 54.7 | 8.5 | 4.8 |
| CPL2 | 2 | 5 | 50 | | 0.28 | 26.5 - 54 | 11.5 | 5.0 |
| CTX01-18754-R | | 2 | 60 | | 0.26 | 12.7 | 12.1 | 3.0 |
| CTX17-18765-R | | 2 | 50 | | 0.27 | 10.0 | 10.0 | 4.0 |
| CTX17-18913-R | | 2 | 100 | | 0.30 | 18.5 | 11.5 | 10.0 |

MPI Low profile, high power density shielded inductors

- Rugged construction
- Magnetically shielded
- High frequency, high current
- High power density



| | Inductance (μH) | | Isat Current (A) | | I rms Current (A) | | DCR Max. (mΩ) | | Size (mm) | | |
|----------|-----------------|------|------------------|------|-------------------|------|---------------|------|-----------|-----|---------|
| | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | L | W | H |
| MPI20-V1 | 0.47 | 2.2 | 2.6 | 5.5 | 2.2 | 4.5 | 31 | 135 | 2.2 | 1.8 | 1.0 |
| MPI25-V2 | 0.33 | 4.7 | 1.9 | 7.5 | 1.4 | 5.1 | 19 | 235 | 2.7 | 2.2 | 1.0-1.2 |
| MPI40-V2 | 0.10 | 22.0 | 1.7 | 22.0 | 1.2 | 16.0 | 5 | 402 | 4.7 | 4.3 | 1.2-2.0 |

MCL Multilayer RF chip inductors

- High-Q
- Suitable for RF matching
- High current with good attenuation
- Monolithic construction yields high reliability



| Family | Inductance (μH) | | SRF (MHz) | | I Rated (mA) | | DCR Max. (mΩ) | | Size (mm) | | |
|-----------|-----------------|------|-----------|-------|--------------|------|---------------|------|-----------|-----|-----|
| | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | L | W | H |
| MCL1005 | 0.001 | 0.4 | 300 | 10000 | 50 | 400 | 100 | 7500 | 1.2 | 0.7 | 0.7 |
| MCL1608V1 | 0.047 | 12.0 | 15 | 260 | 60 | 150 | 120 | 1250 | 1.8 | 1.0 | 1.0 |
| MCL1608V2 | 0.002 | 0.5 | 250 | 10000 | 150 | 500 | 50 | 3600 | 1.8 | 1.0 | 1.0 |
| MCL2012V1 | 0.047 | 22.0 | 16 | 320 | 50 | 350 | 15 | 750 | 2.2 | 1.4 | 1.1 |
| MCL2012V2 | 0.0015 | 0.5 | 200 | 6000 | 300 | 500 | 100 | 2000 | 2.2 | 1.4 | 1.1 |

WCL Wire wound RF chip inductors

- High-Q
- Suitable for RF matching
- High current with good attenuation



| | Inductance (μH) | | SRF (MHz) | | I Rated (mA) | | DCR Max. (mΩ) | | Size (mm) | | |
|---------|-----------------|------|-----------|------|--------------|------|---------------|-------|-----------|-----|-----|
| | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | L | W | H |
| WCL2520 | 0.12 | 220 | 2.5 | 850 | 20 | 800 | 150 | 18000 | 2.9 | 2.8 | 2.1 |
| WCL3225 | 0.12 | 2560 | 1.5 | 850 | 30 | 450 | 200 | 28000 | 3.5 | 2.9 | 2.3 |

HC High current inductors – iron powder

- Iron powder core material
- Magnetically shielded, low EMI
- High current carrying capacity, low core losses



| | Inductance (μH) | | Isat Current (A) | | Irms Current (A) | | DCR Max. (mΩ) | | Size (mm) | | |
|---------|-----------------|------|------------------|------|------------------|------|---------------|------|-----------|------|-----------|
| | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | L | W | H |
| HCM0503 | 0.2 | 22.0 | 1.9 | 21 | 1.9 | 22 | 2.3 | 270 | 5.5 | 5.3 | 3.0 |
| HCM0703 | 0.2 | 33.0 | 2.2 | 52 | 1.8 | 26 | 2.5 | 242 | 7.4 | 7.0 | 3.0 |
| HCM1103 | 0.1 | 22.0 | 5.0 | 75 | 3.0 | 30 | 0.6 | 99 | 11.5 | 10.3 | 3.0 |
| HCM1104 | 0.2 | 22.0 | 5.5 | 45 | 5.0 | 32 | 0.7 | 66 | 11.5 | 10.3 | 4.0 |
| HCM1305 | 0.1 | 33.0 | 8.0 | 12 | 5.2 | 55 | 0.6 | 86 | 13.8 | 12.5 | 5.0 |
| HCM1307 | 0.5 | 3.0 | 40.0 | 63 | 15.0 | 38 | 1.2 | 5 | 14.2 | 13.0 | 6.5 |
| HCM1707 | 1.5 | 68.0 | 6.5 | 40 | 5.2 | 40 | 2.2 | 85 | 17.5 | 17.2 | 7.0 |
| HCP0605 | | 0.1 | | 20 | | 53 | | | 6.1 | 5.3 | 5.0 |
| HCP0704 | 0.4 | 4.7 | 8.0 | 27 | 5.0 | 17 | 3.5 | 33 | 6.8 | 6.8 | 4.0 - 4.2 |
| HCP0805 | 0.4 | 2.2 | 14.0 | 32 | 10.0 | 20 | 3.3 | 12 | 7.9 | 7.6 | 5.0 |
| FP3 | 0.1 | 14.9 | 2.5 | 35 | 2.2 | 19 | 1.2 | 127 | 7.3 | 6.7 | 3.0 |

HC High current inductors – ferrite

- Ferrite core material
- Low profile
- Low core losses with high DC bias
- High current



| | Inductance (μH) | | Isat Current (A) | | Irms Current (A) | | DCR Max. (mΩ) | | Size (mm) | | |
|---------|-----------------|------|------------------|------|------------------|------|---------------|------|-----------|------|-------------|
| | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | L | W | H |
| HCF1007 | 0.3 | 10.0 | 5.3 | 48 | 9.4 | 30 | 0.99 | 9.2 | 10.3 | 8.1 | 6.7 |
| HCF1305 | 0.5 | 4.7 | 10.4 | 36 | 10.9 | 32 | 1.00 | 7.2 | 12.5 | 12.5 | 5.0 |
| HC1 | 0.2 | 10.5 | 5.3 | 41 | 12.8 | 51 | 0.36 | 5.7 | 13.0 | 13.0 | 10.0 |
| HC2LP | 0.5 | 6.0 | 16.5 | 64 | 17.0 | 53 | 0.60 | 4.6 | 19.2 | 19.2 | 11.2 |
| HC3 | 0.5 | 6.5 | 30.0 | 120 | 33.8 | 78 | 0.42 | 2.2 | 25.3 | 30.0 | 17.5 - 18.0 |

HC High current inductors – high temperature shielded inductors


- +155 °C maximum total operating temperature
- Low DCR
- High efficiency



| | Inductance (μH) | | Isat Current (A) | | Irms Current (A) | | DCR Max. (mΩ) | | Size (mm) | | |
|-------|-----------------|------|------------------|------|------------------|------|---------------|------|-------------|------|-----------|
| | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | L | W | H |
| HC8 | 0.175 | 47.3 | 4.2 | 76 | 2.2 | 39.0 | 0.8 | 237 | 10.9 | 10.4 | 4.0 |
| HC8LP | 0.170 | 47.9 | 3.1 | 56 | 1.8 | 29.0 | 1.4 | 344 | 10.9 | 10.4 | 3.3 - 3.5 |
| HC9 | 0.219 | 49.2 | 5.7 | 95 | 3.7 | 46.7 | 0.5 | 72 | 13.4 - 14.1 | 13.1 | 7.5 |
| HC7 | 0.220 | 4.8 | 17.3 | 87 | 9.8 | 35.8 | 0.7 | 9 | 13.8 - 14.3 | 13.0 | 5.5 - 6.0 |

DR and DRQ High power, shielded inductors

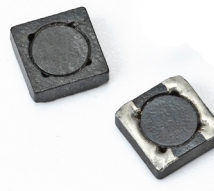
- High power density
- High efficiency
- Magnetically shielded drum
- Dual winding available, DRQ
- Secure mounting
- Ferrite core material



| | Inductance (μH) | | Isat Current (A) | | Irms Current (A) | | DCR Typ. (mΩ) | | Size (mm) | | |
|-----------------------|-----------------|--------|------------------|------|------------------|------|---------------|--------|-----------|------|-----|
| | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | L | W | H |
| Single Winding | | | | | | | | | | | |
| DR73 | 0.306 | 995 | 0.250 | 14.4 | 0.26 | 6.2 | 8.5 | 5060 | 7.6 | 7.6 | 3.6 |
| DR74 | 0.294 | 1009 | 0.310 | 18.4 | 0.27 | 6.3 | 8.6 | 4540 | 7.6 | 7.6 | 4.4 |
| DR1030 | 1.100 | 155 | 0.860 | 9.5 | 0.68 | 7.0 | 8.0 | 700 | 10.5 | 10.3 | 3.0 |
| DR1040 | 1.400 | 323 | 0.700 | 10.0 | 0.52 | 6.5 | 8.0 | 1090 | 10.5 | 10.3 | 4.0 |
| DR1050 | 0.700 | 1000 | 0.480 | 13.5 | 0.43 | 9.7 | 4.0 | 1950 | 10.5 | 10.3 | 5.0 |
| DR124 | 0.420 | 998 | 0.530 | 24.4 | 0.44 | 16.0 | 2.7 | 3500 | 12.5 | 12.5 | 4.5 |
| DR125 | 0.456 | 120630 | 0.069 | 33.0 | 0.06 | 17.6 | 2.1 | 175000 | 12.5 | 12.5 | 6.0 |
| DR127 | 0.419 | 1005 | 1.140 | 56.0 | 0.61 | 17.9 | 2.3 | 1940 | 12.5 | 12.5 | 8.0 |
| Dual Winding | | | | | | | | | | | |
| DRQ73 | 0.306 | 3980 | 0.130 | 14.4 | 0.128 | 6.2 | 6.0 | 17,400 | 7.6 | 7.6 | 3.6 |
| DRQ74 | 0.294 | 4036 | 0.160 | 18.4 | 0.135 | 6.2 | 6.0 | 15,600 | 7.6 | 7.6 | 4.5 |
| DRQ125 | 0.470 | 4032 | 0.350 | 33.0 | 0.283 | 17.6 | 2.0 | 6,800 | 12.5 | 12.5 | 6.0 |
| DRQ127 | 0.419 | 4020 | 0.571 | 56.0 | 0.307 | 17.9 | 2.0 | 6,800 | 12.5 | 12.5 | 8.0 |

SD and SDQ High power, shielded inductors

- High power density
- Dual winding available, SDQ
- Ferrite core material
- Low profile shielded drum



| | Inductance (μH) | | Isat Current (A) | | Irms Current (A) | | DCR Max. (Ω) | | Size (mm) | | |
|-----------------------|-----------------|------|------------------|------|------------------|------|--------------|-------|-----------|-----|-----|
| | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | L | W | H |
| Single Winding | | | | | | | | | | | |
| SD10 | 0.45 | 468 | 0.11 | 3.5 | 0.12 | 2.59 | 0.025 | 12.10 | 5.2 | 5.2 | 1.0 |
| SD12 | 0.49 | 992 | 0.09 | 3.9 | 0.12 | 3.19 | 0.025 | 17.20 | 5.2 | 5.2 | 1.2 |
| SD14 | 0.61 | 1008 | 0.12 | 4.8 | 0.13 | 3.52 | 0.022 | 15.80 | 5.2 | 5.2 | 1.5 |
| SD18 | 0.49 | 1004 | 0.10 | 4.6 | 0.14 | 3.58 | 0.020 | 14.01 | 5.2 | 5.2 | 1.8 |
| SD20 | 0.49 | 1005 | 0.88 | 4.0 | 0.17 | 3.59 | 0.020 | 8.73 | 5.2 | 5.2 | 2.0 |
| SD25 | 0.47 | 1003 | 0.13 | 6.0 | 0.22 | 3.88 | 0.018 | 5.70 | 5.2 | 5.2 | 2.5 |
| SD3114 | 1.20 | 330 | 0.14 | 2.4 | 0.11 | 1.60 | 0.058 | 11.78 | 3.7 | 3.1 | 1.4 |
| SD3118 | 1.00 | 999 | 0.08 | 3.1 | 0.09 | 2.01 | 0.041 | 21.00 | 3.9 | 3.2 | 1.8 |
| SD53 | 1.10 | 100 | 0.45 | 4.8 | 0.44 | 3.25 | 0.017 | 0.69 | 5.2 | 5.7 | 3.0 |
| SD6020 | 1.99 | 94 | 0.36 | 2.2 | 0.42 | 4.20 | 0.030 | 1.00 | 6.0 | 6.0 | 2.0 |
| SD6030 | 2.70 | 659 | 0.16 | 2.6 | 0.27 | 4.08 | 0.013 | 3.50 | 6.0 | 6.0 | 3.0 |
| SD7030 | 1.50 | 677 | 0.21 | 4.5 | 0.28 | 5.50 | 0.010 | 3.20 | 7.0 | 7.0 | 3.0 |
| SD8328 | 2.70 | 97 | 0.80 | 4.5 | 0.80 | 6.60 | 0.012 | 0.33 | 9.5 | 8.3 | 3.0 |
| SD8350 | 1.50 | 99 | 1.30 | 9.1 | 0.80 | 5.50 | 0.012 | 0.32 | 9.5 | 8.3 | 4.5 |
| Dual Winding | | | | | | | | | | | |
| SDQ12 | 0.49 | 331 | 0.167 | 4.34 | 0.15 | 2.78 | 0.0325 | 10.49 | 5.2 | 5.2 | 1.2 |
| SDQ25 | 0.39 | 4033 | 0.063 | 6.43 | 0.08 | 3.71 | 0.0181 | 39.26 | 5.2 | 5.2 | 2.5 |

Dual winding toroidal power inductors

- Dual winding inductors that can be used as either a single inductor, or in coupled inductor/transformer applications (1:1 turns ratio)
- Closed magnetic path, low EMI
- Low core loss

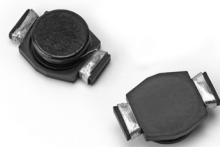


| | Inductance (μH) | | Current (A) | | DCR Max. (Ω) | | Size (mm) | | |
|---------|------------------------------|------|-------------|------|-----------------------|------|-----------|------|-----|
| | Min. | Max. | Min. | Max. | Min. | Max. | L | W | H |
| CTX_-1 | 0.40 | 1210 | 0.1 | 5.5 | 0.005 | 5.7 | 11.4 | 8.9 | 4.2 |
| CTX_-2 | 0.42 | 1203 | 0.2 | 6.5 | 0.005 | 4.9 | 11.4 | 8.9 | 6.0 |
| CTX_-3 | 0.38 | 1204 | 0.2 | 6.0 | 0.005 | 3.1 | 14.0 | 11.4 | 4.8 |
| CTX_-4 | 0.44 | 1192 | 0.3 | 7.0 | 0.004 | 2.7 | 14.0 | 11.4 | 6.4 |
| CTX_-1P | 0.42 | 1199 | 0.2 | 5.5 | 0.005 | 6.1 | 11.4 | 8.9 | 4.2 |
| CTX_-2P | 0.54 | 1201 | 0.2 | 5.9 | 0.006 | 4.7 | 11.4 | 8.9 | 6.0 |
| CTX_-3P | 0.46 | 1194 | 0.3 | 6.2 | 0.006 | 3.7 | 14.0 | 11.4 | 4.8 |
| CTX_-4P | 0.49 | 1196 | 0.3 | 7.9 | 0.005 | 4.0 | 14.0 | 11.4 | 6.4 |

| | Inductance (μH) | | Isat Current (A) | | Irms Current (A) | | DCR Max. ($\text{m}\Omega$) | | Size (mm) | | |
|---------|------------------------------|------|------------------|------|------------------|------|-------------------------------|------|-----------|------|-----|
| | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | L | W | H |
| CTX_-4A | 0.33 | 1211 | 0.4 | 22.5 | 0.4 | 12.2 | 0.003 | 3.1 | 14.0 | 11.4 | 6.4 |

UP Unshielded drum core power inductors

- Designed for high shock environments
- Ferrite core material
- Rugged construction



| | Inductance (μH) | | Isat Current (A) | | Irms Current (A) | | DCR Max. ($\text{m}\Omega$) | | Size (mm) | | |
|--------|------------------------------|------|------------------|------|------------------|-------|-------------------------------|------|-----------|------|-----|
| | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | L | W | H |
| UP0.4C | 1.20 | 100 | 0.4 | 3.7 | 0.37 | 2.88 | 30.0 | 1580 | 6.6 | 4.5 | 2.9 |
| UP1B | 0.57 | 332 | 0.3 | 7.7 | 0.28 | 6.00 | 9.7 | 3100 | 8.9 | 6.1 | 5.0 |
| UP2B | 0.60 | 1005 | 0.3 | 11.4 | 0.37 | 10.60 | 4.9 | 2960 | 14.0 | 10.4 | 6.0 |
| UP2.8B | 0.98 | 150 | 0.7 | 8.0 | 0.62 | 3.60 | 28.6 | 971 | 12.9 | 9.4 | 2.8 |
| UP2UC | 1.00 | 1000 | 0.3 | 9.0 | 0.30 | 6.80 | 9.0 | 3000 | 13.0 | 9.5 | 5.2 |
| UP3B | 0.45 | 330 | 1.0 | 25.1 | 0.75 | 16.00 | 2.1 | 733 | 19.3 | 13.2 | 6.8 |
| UP4B | 0.47 | 470 | 1.7 | 51.7 | 0.91 | 19.20 | 1.9 | 833 | 22.1 | 15.0 | 7.9 |
| UP5 | 1.00 | 1000 | 1.0 | 20.0 | 0.56 | 8.60 | 9.0 | 1800 | 18.7 | 15.3 | 7.5 |

CMS Toroidal common-mode inductors

- Common mode inductor
- +160°C maximum total temperature
- Frequency range up to 100 MHz
- Noise attenuation up to 44 dB



| | Inductance (μH) | | Irms Current (A) | | DCR Typ. (Ω) | | Size (mm) | | |
|------|------------------------------|------|------------------|------|-----------------------|------|-----------|------|-----|
| | Min. | Max. | Min. | Max. | Min. | Max. | L | W | H |
| CMS1 | 8 | 205 | 0.85 | 7.0 | 0.003 | 0.19 | 9.4 | 7.2 | 2.6 |
| CMS2 | 25 | 1340 | 0.50 | 6.0 | 0.004 | 0.62 | 11.4 | 8.9 | 6.0 |
| CMS3 | 28 | 1310 | 0.75 | 5.7 | 0.005 | 0.03 | 14.0 | 11.4 | 6.0 |

LD Metalized, unshielded drum core inductors

- Metalized, unshielded drum core
- Ferrite core material
- Noise filtering and output filter chokes



| | Inductance (μH) | | Isat Current (A) | | Irms Current (A) | | DCR Max. ($\text{m}\Omega$) | | Size (mm) | | |
|-----|------------------------------|------|------------------|------|------------------|------|-------------------------------|------|-----------|-----|-----|
| | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | L | W | H |
| LD1 | 1 | 330 | 0.3 | 4.5 | 0.22 | 2.66 | 33 | 4700 | 4.8 | 4.3 | 3.5 |
| LD2 | 10 | 470 | 0.6 | 3.5 | 0.74 | 3.83 | 70 | 1960 | 8.1 | 7.3 | 5.3 |

LCPI Vertical, horizontal and header mounted through-hole toroidal inductors

- Self-leaded and header mounted toroidal inductors
- Low loss, iron powder cores with stable electrical operating characteristics
- Vertical and horizontal configurations



| | Inductance (μH) | | Isat Current (A) | | Irms Current (A) | | DCR Max. (mΩ) | | Mounting Style |
|----------|-----------------|------|------------------|------|------------------|------|---------------|------|----------------|
| | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | |
| CTX-52 | 10.1 | 1004 | 1.9 | 29.5 | 1.5 | 31.5 | 0.003 | 0.64 | Vertical |
| CTX-52LP | 10.1 | 1004 | 1.9 | 29.5 | 1.5 | 31.5 | 0.003 | 0.64 | Horizontal |
| CTX-52M | 10.1 | 1004 | 1.9 | 14.5 | 1.5 | 11.4 | 0.008 | 0.64 | Header |

RL Through-hole unshielded inductors

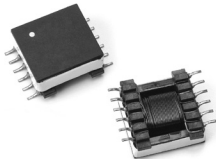
- Radial leaded, unshielded drum core
- Protective sleeving over winding
- Ferrite core



| | Inductance (μH) | | Isat Current (A) | | Irms Current (A) | | DCR Max. (mΩ) | | Size (mm) | | |
|--------|-----------------|-------|------------------|------|------------------|------|---------------|-------|-----------|------|------|
| | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | L | W | H |
| RL1011 | 4.43 | 2204 | 0.3 | 7.1 | 0.26 | 4.60 | 17 | 4580 | 9.5 | 9.5 | 10.5 |
| RL1218 | 4.47 | 12000 | 0.3 | 15.0 | 0.20 | 5.65 | 17 | 14100 | 12.2 | 12.2 | 18.0 |

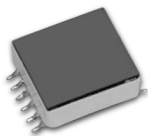
VP Surface-mount configurable inductor/transformers

- High power density, low profile configurable transformers
- Multi-winding (six total)
- Ferrite core material
- Low radiated noise and tightly coupled windings
- Over 500 configurable combinations



| Family | Inductance (μH) | | Isat Current (A) | | Irms Current (A) | | DCR Max. (mΩ) | | Size (mm) | | |
|----------|-----------------|------|------------------|------|------------------|------|---------------|-------|-----------|------|------|
| | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | L | W | H |
| VP1/VPH1 | 3.8 | 201 | 0.04 | 1.37 | 0.55 | 0.85 | 0.145 | 0.344 | 13.0 | 12.9 | 6.2 |
| VP2/VPH2 | 3.2 | 160 | 0.10 | 2.50 | 0.95 | 1.26 | 0.090 | 0.159 | 16.8 | 16.3 | 7.8 |
| VP3/VPH3 | 3.8 | 132 | 0.10 | 1.73 | 0.97 | 1.47 | 0.061 | 0.140 | 22.3 | 17.1 | 8.4 |
| VP4/VPH4 | 3.8 | 160 | 0.11 | 2.18 | 1.41 | 1.70 | 0.057 | 0.083 | 24.6 | 18.0 | 10.0 |
| VP5/VPH5 | 3.4 | 173 | 0.14 | 4.59 | 1.70 | 2.08 | 0.047 | 0.071 | 28.5 | 21.0 | 10.8 |

Power-over-Ethernet (PoE) configurable transformers



- Versatile design allows for multiple output variations
- Flyback and forward topology
- Low leakage inductance
- Ferrite core material

| Family | Power (W) | Input (V) | | Primary Inductance (μH) | Secondary Outputs@Currents | DCR Primary (Ω) | DCR Secondary (Ω) | | Leakage Inductance (μH) | | Size (mm) | | |
|--------|-----------|-----------|------|-------------------------|-------------------------------------------------------------------------------------------------------------------------------|-----------------|-------------------|------|-------------------------|------|-----------|------|------|
| | | Min. | Max. | | | | Min. | Max. | Min. | Max. | L | W | H |
| PoE4 | 4 | 29.5 | 60 | 200 | 3.0 x 3.3 V @ 0.5 A 3.0 x 5.0 V @ 0.3 A 2.0 x 12.0 V @ 0.2 A | 0.50 | 0.07 | 0.74 | 1.4 | 2.8 | 22.3 | 17.1 | 8.4 |
| PoE7 | 7 | 29.5 | 60 | 100 | 3.0 x 3.3 V @ 0.8 A 3.0 x 5.0 V @ 0.5 A 2.0 x 12.0 V @ 0.3 A | 0.28 | 0.03 | 0.25 | 1.0 | 1.0 | 22.3 | 17.1 | 8.4 |
| PoE13 | 13 | 29.5 | 60 | 100 | 3.0 x 3.3 V @ 1.4 A 3.0 x 5.0 V @ 0.9 A 2.0 x 12.0 V @ 0.6 A 7.0V@1.1A, 3.3V@1.1A, 1.8V@1.1A 5.0V@1.6A, 3.3V@1.6A | 0.25 | 0.03 | 0.28 | 1.0 | 1.5 | 24.6 | 18.0 | 10.0 |
| PoE26 | 26 | 29.5 | 60 | 160 | 2.0 x 3.3 V @ 4.0 A 5.0 V @ 2.6 A | 0.10 | 0.03 | 0.05 | 1.0 | 1.0 | 28.5 | 21.5 | 10.8 |

Custom capabilities

Eaton's leadership in custom solutions is derived from our in-depth understanding of applications, modeling tools, and customer needs to maximize device performance. We offer transformers, inductors, and planar form factors which can be build to print or fully designed by our team.

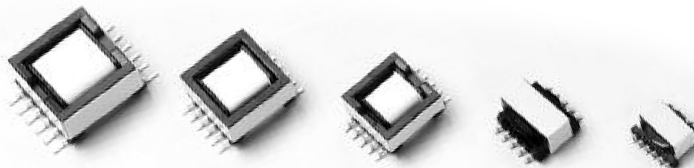
Standard geometry custom inductors

- Power range from 1 Watt to 120 Watts
- Frequency range from 20 kHz to 500 kHz
- High power density and low radiated noise
- Ferrite core material

Standard geometries sizes 1 to 9 core and bobbin parameters

| Specifications | SG1 | SG2 | SG3 | SG4 | SG5 | SG6 | SG7 | SG8 | SG9 |
|-----------------------------------------|---------|-----------|--------|--------|--------|--------|---------|--------|--------|
| Core | ER 11/5 | ER 14.5/6 | EFD 15 | EFD 17 | EFD 20 | EE8.3 | EF 12.6 | EE 13 | SEE 16 |
| AL-1, nH/T ² | 1400 | 1600 | 780 | 1028 | 1200 | 675 | 1075 | 1100 | 1254 |
| AL-2, nH/T ² | 190 | 216 | 138 | 140 | 155 | 96 | 95 | 128 | 153 |
| AL-3, nH/T ² | 102 | 116 | 84 | 75 | 83 | | | | |
| AL-4, nH/T ² | 76 | 83 | 55 | 60 | 67 | 58 | 57 | 77 | 92 |
| AL-5, nH/T ² | 59 | 66 | 47 | 47 | 53 | | | | |
| Ae, min. core area, cm ² | 0.09 | 0.15 | 0.12 | 0.20 | 0.31 | 0.06 | 0.10 | 0.14 | 0.18 |
| le, mag. path lgth., cm | 1.46 | 1.90 | 3.40 | 4.12 | 4.70 | 1.92 | 2.96 | 3.06 | 3.55 |
| Ve, core volume, cm ³ | 0.17 | 0.33 | 0.51 | 0.94 | 1.46 | 0.16 | 0.39 | 0.55 | 0.86 |
| MLT, ave. turn length, cm | 2.167 | 2.705 | 2.681 | 3.220 | 3.836 | 2.088 | 2.548 | 3.230 | 3.778 |
| Wa, usable wdg. area, cm ² * | 0.0171 | 0.0302 | 0.0915 | 0.1051 | 0.1441 | 0.0317 | 0.0769 | 0.1114 | 0.1849 |
| WaAc, cm ⁴ | 0.0015 | 0.0046 | 0.0112 | 0.0206 | 0.0447 | 0.0019 | 0.0077 | 0.0154 | 0.0342 |
| UL flammability rating | 94V-0 | 94V-0 | 94V-0 | 94V-0 | 94V-0 | 94V-0 | 94V-0 | 94V-0 | 94V-0 |

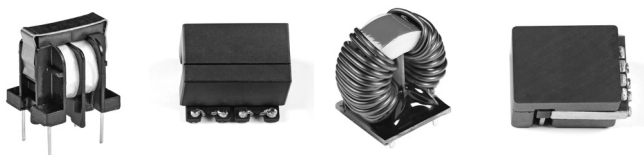
* fill factor considered



- Standard geometries sizes 1 through 5 are gull wing style devices offering very low product profiles
- Standard geometries sizes 6 through 9 are J-lead style devices offering smaller product footprints but with increased product height

Custom form factor inductors and transformers

- Optimized performance
- Traditional wire wound, planar and integrated options
- Broad range of material solutions



Tools

Eaton's electronics product selection tools



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