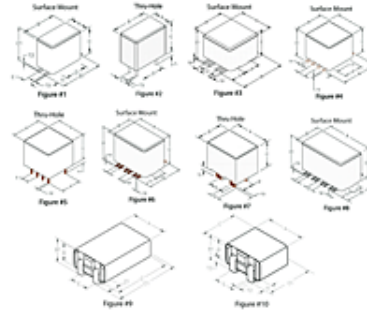
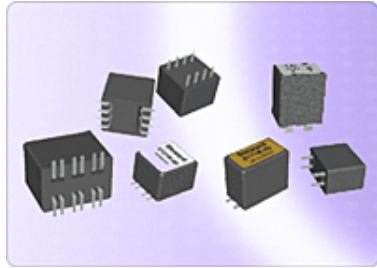


Common Mode Chokes - Ultra High Current Power Filtering

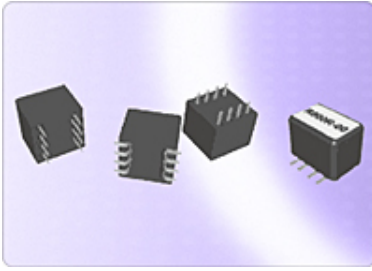
Laird Technologies' ultra high current CM chokes provide small form factor, high performance, and economical power filtering for common mode noise in applications up to 75 amps. Multi-line, surface mount filters provide EMI suppression for groups of conductors like power traces and high-speed data lines. Effective filtering into the GHz range



| Item # | Figure Number | Typical Peak Impedance (OHMS) | Peak Impedance Frequency (MHZ) | MAX. DCR (OHMS) | Rated Current (Continuous) | Dimension A | Dimension T1 |
|----------------|---------------|-------------------------------|--------------------------------|-----------------|----------------------------|----------------------|---------------------|
| CM2021Y330R-10 | 10 | 62 | 1100 | 0.0008 | 15000 | 5.60 mm 0.220 in | 0.069 in 1.75 mm |
| CM2545X171B-10 | 2 | 210 | 500 | 0.01 | 10000 | 6.30 mm 0.248 in | 0.135 in 3.43 mm |
| CM2545X171R-10 | 1 | 210 | 500 | 0.01 | 10000 | 6.30 mm 0.248 in | 0.114 in 2.90 mm |
| CM3032V121R-10 | 3 | 169 | 2010 | 0.01 | 8000 | 7.62 mm 0.300 in | 0.130 in 3.30 mm |
| CM3032V201R-10 | 3 | 214 | 319 | 0.01 | 8000 | 7.62 mm 0.300 in | 0.130 in 3.30 mm |
| CM3032V301R-10 | 3 | 307 | 214 | 0.01 | 8000 | 7.62 mm 0.300 in | 0.130 in 3.30 mm |
| CM3421Y600R-10 | 9 | 110 | 1000 | 0.00075 | 15000 | 5.60 mm 0.220 in | 0.069 in 1.75 mm |
| CM3440Z171B-10 | 2 | 202 | 1000 | 0.001 | 20000 | 8.51 mm 0.335 in | 0.123 in 3.12 mm |
| CM3440Z171R-10 | 1 | 202 | 1000 | 0.001 | 20000 | 8.51 mm 0.335 in | 0.140 in 3.56 mm |
| CM4545Z131B-10 | 5 | 288 | 682 | 0.01 | 10000 | 11.38 mm 0.448 in | 0.135 in 3.43 mm |
| CM4545Z131R-10 | 4 | 288 | 682 | 0.01 | 10000 | 11.38 mm 0.448 in | 0.114 in 2.90 mm |
| CM4732V201R-10 | 6 | 229 | 241 | 0.01 | 8000 | 11.84 mm 0.470 in | 0.130 in 3.30 mm |
| CM4732V301R-10 | 6 | 328 | 168 | 0.01 | 8000 | 11.94 mm 0.470 in | 0.130 in 3.30 mm |
| CM5441Z101B-10 | 7 | 204 | 682 | 0.0003 | 75000 | 13.72 mm 0.540 in | 0.120 in 3.05 mm |
| CM5441Z101B-13 | 7 | 204 | 682 | 0.0003 | 75000 | 13.72 mm 0.540 in | 0.175 in 4.45 mm |
| CM5441Z161B-10 | 7 | 263 | 457 | 0.0003 | 75000 | 13.72 mm 0.540 in | 0.120 in 3.05 mm |
| CM5441Z161B-13 | 7 | 263 | 457 | 0.0003 | 75000 | 13.72 mm 0.540 in | 0.175 in 4.45 mm |
| CM5740Z171B-10 | 5 | 202 | 1000 | 0.001 | 20000 | 14.48 mm 0.570 in | 0.123 in 3.12 mm |

| | | | | | | | |
|----------------|---|-----|------|-------|-------|----------------------|---------------------|
| CM5740Z171R-10 | 3 | 202 | 1000 | 0.001 | 20000 | 14.48 mm 0.570 in | 0.140 in 3.56 mm |
| CM6032V201R-10 | 8 | 219 | 500 | 0.01 | 8000 | 15.24 mm 0.600 in | 0.130 in 3.30 mm |
| CM6032V301R-10 | 8 | 346 | 149 | 0.01 | 8000 | 15.24 mm 0.600 in | 0.130 in 3.30 mm |

Common Mode Arrays - Power and Signal EMI Filtering



Laird Technologies' advanced family of common mode choke arrays provides EMI filtering for both power and data lines all in one part. The product is available from 4 lines up to 8 lines and is effective for power line filtering, USB, Firewire, 10T, 100T, RJ11/45, and Gigabit. Designed to maximize signal integrity.

| Item # | Figure Number | Typical Peak Impedance (OHMS) | Peak Impedance Frequency (MHZ) | MAX. DCR (OHMS) | Rated Current (Continuous) | Dimension A | Dimension B |
|----------------|---------------|-------------------------------|--------------------------------|-----------------|----------------------------|----------------------|---------------------|
| CM2722R151R-10 | 1 | 168 | 1783 | 0.02 | 5000 | 6.99 mm 0.275 in | 5.72 mm 0.225 in |
| CM2722R201R-10 | 1 | 206 | 272 | 0.02 | 5000 | 6.99 mm 0.275 in | 5.72 mm 0.225 in |
| CM2722R800R-10 | 1 | 140 | 3000 | 0.02 | 5000 | 6.99 mm 0.275 in | 5.72 mm 0.225 in |
| CM3822R151R-10 | 2 | 172 | 1646 | 0.02 | 5000 | 9.78 mm 0.385 in | 5.72 mm 0.225 in |
| CM3822R201R-10 | 2 | 213 | 218 | 0.02 | 5000 | 9.78 mm 0.385 in | 5.72 mm 0.225 in |
| CM3822R800R-10 | 2 | 151 | 3000 | 0.02 | 5000 | 9.78 mm 0.385 in | 5.72 mm 0.225 in |
| CM5022R151R-10 | 3 | 177 | 2092 | 0.02 | 5000 | 12.57 mm 0.495 in | 5.72 mm 0.225 in |
| CM5022R201R-10 | 3 | 210 | 306 | 0.02 | 5000 | 12.57 mm 0.495 in | 5.72 mm 0.225 in |
| CM5022R800R-10 | 3 | 150 | 3000 | 0.02 | 5000 | 12.57 mm 0.495 in | 5.72 mm 0.225 in |

Common Mode Chokes

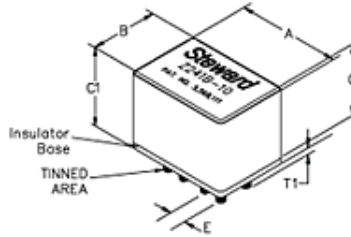
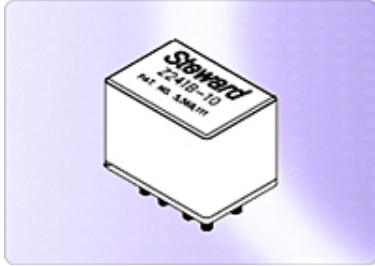


Laird Technologies' current compensated surface mount chokes for controller area networks (CAN-Bus) in automotive and industrial controls applications.

| Item # | Figure Number | Typical Peak Impedance | Peak Impedance Frequency | Leakage (L) | Dimension A | Dimension A1 |
|----------------|---------------|------------------------|--------------------------|--------------|---------------------|---------------------|
| CC1812C513R-10 | 2 | 3530 ohms | 40 MHz | 2.6 μ H | 5.00 mm 0.197 in | 0.205 in 5.20 mm |
| CC2824B475R-10 | 1 | 12300 ohms | 2 MHz | 0.30 μ H | 7.50 mm 0.295 in | 0.354 in 9.00 mm |
| CC2824D225R-10 | 1 | 5278 ohms | 5 MHz | 0.25 μ H | 7.50 mm 0.295 in | 0.354 in 9.00 mm |
| CC2824E105R-10 | 1 | 4250 ohms | 7 MHz | 0.20 μ H | 7.50 mm 0.295 in | 0.354 in 9.00 mm |
| CC2824E113R-10 | 1 | 780 ohms | 200 MHz | 0.05 μ H | 7.50 mm 0.295 in | 0.354 in 9.00 mm |
| CC2824E253R-10 | 1 | 1971 ohms | 100 MHz | 1.50 μ H | 7.50 mm 0.295 in | 0.354 in 9.00 mm |
| CC2824E474R-10 | 1 | 8580 ohms | 5 MHz | 0.20 μ H | 7.50 mm 0.295 in | 0.354 in 9.00 mm |
| CC2824E513R-10 | 1 | 3805 ohms | 50 MHz | 2.0 μ H | 7.50 mm 0.295 in | 0.354 in 9.00 mm |
| CC2824J502R-10 | 1 | 388 ohms | 500 MHz | 0.05 μ H | 7.50 mm 0.295 in | 0.354 in 9.00 mm |

Item # CM5740Z241B-10, Common Mode Chokes - Low Frequency Power Filtering

This common mode chokes construction provides for a more lean and cost saving approach then comparable larger, heavier, wire-wound toroidal inductors. This part provides excellent low frequency attenuation of common mode noise, within the frequencies of 100 kHz and 25 MHz. This part is great for power supply filtering, and other low frequency applications.



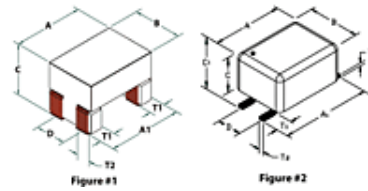
SPECIFICATIONS

| | |
|-------------------------------|----------------------|
| Typical Z Ohms at 1 MHz | 170 |
| Typical Z Ohms at 4 MHz | 240 |
| Typical Z Ohms at 10 MHz | 175 |
| Typical Z Ohms at 25 MHz | 140 |
| Typical Peak Impedance (OHMS) | 276 |
| MAX. DCR (OHMS) | 0.001 |
| Rated Current (Continuous) | 20000 |
| Dimension A | 14.48 mm 0.57 in |
| Dimension B | 10.03 mm 0.395 in |
| Dimension C | 9.78 mm 0.385 in |
| Dimension C1 | 0.415 in 10.54 mm |
| Dimension E | 2.54 mm 0.100 in |

| | |
|------------------------|-----------------------------------|
| Dimension T1 | 0.126 in 3.20 mm |
| Part Size Code | 5740 |
| Packaging | Bulk Standard Thru-Hole Packaging |
| Additional Description | Lead Free Standard Catalog Part |

Common Mode Chokes - Signal Filtering

These chokes exhibit superior impedance performance well into the 100 kHz range and below. The internal construction of these chokes are of the wound toroidal fashion. They use a large number of cable pairs twisted or non-twisted. This configuration reduces RFI and cross talk associated with balanced wires found in most common chokes. With typical peak impedances ranging from 2 kohms to 13 kohms in the frequency ranges of 18 to 80 MHz these parts are perfect for suppressing noisy common mode signal lines.



| Item # | Figure Number | Typical Peak Impedance (OHMS) | Peak Impedance Frequency (MHZ) | MAX. DCR (OHMS) | Max. Current | Dimension A | Dimension A1 |
|----------------|---------------|-------------------------------|--------------------------------|-----------------|--------------|---------------------|---------------------|
| CM1812C282R-10 | 1 | 3500 | 50 | 0.5 | 200 | 5.00 mm 0.197 in | 0.205 in 5.20 mm |
| CM2824B103R-10 | 2 | 13200 | 2 | 1.3 | 400 | 7.50 mm 0.295 in | 0.354 in 9.00 mm |
| CM2824E182R-10 | 2 | 1920 | 80 | 0.26 | 800 | 7.50 mm 0.295 in | 0.354 in 9.00 mm |
| CM2824E352R-10 | 2 | 3950 | 45 | 0.3 | 800 | 7.50 mm 0.295 in | 0.354 in 9.00 mm |
| CM2824E702R-10 | 2 | 7200 | 6 | 0.26 | 700 | 7.50 mm 0.295 in | 0.354 in 9.00 mm |

Wound Common Mode Chokes - High Speed Signal Filtering

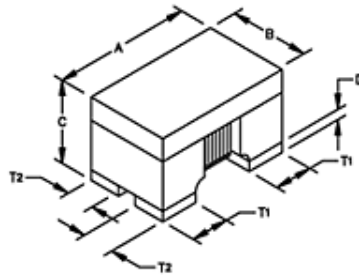
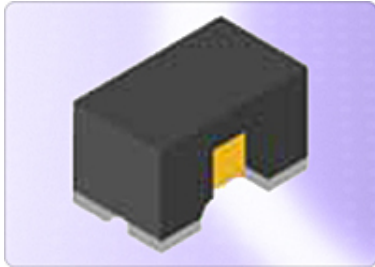
Laird Technologies' wound Common Mode Chokes provide excellent filtering capabilities for workload speeds of 25 to 480 Mb/s. Series 05 Common Mode Chokes handle filtering for bandwidth-hungry data lines in USB 2.0 designs. By using these parts on the data lines (D+ and D-), they will suppress common mode noise without affecting the integrity of the differential signal. Available in package size EIA 0805.

Features

Low Normal Mode Impedance

Applications

USB 2.0, High Density Storage Devices, Broadband, Video Applications, Imaging



| Item # | Typical Peak Impedance (OHMS) | Peak Impedance Frequency (MHZ) | MAX. DCR (OHMS) | Rated Current (Continuous) | Dimension A | Dimension B | Dimension C |
|----------------|-------------------------------|--------------------------------|-----------------|----------------------------|---------------------|---------------------|---------------------|
| CM0805A371R-10 | 878 | 1000 | 0.5 | 100 | 2.00 mm 0.079 in | 1.20 mm 0.047 in | 1.20 mm 0.047 in |
| CM0805C161R-10 | 684 | 1000 | 0.35 | 300 | 2.00 mm 0.079 in | 1.20 mm 0.047 in | 1.20 mm 0.047 in |
| CM0805C221R-10 | 724 | 1147 | 0.4 | 300 | 2.00 mm 0.079 in | 1.20 mm 0.047 in | 1.20 mm 0.047 in |
| CM0805D900R-10 | 445 | 1405 | 0.3 | 400 | 2.00 mm 0.079 in | 1.20 mm 0.047 in | 1.20 mm 0.047 in |