

Common Mode Chokes for Ultra High Current Power EMI Filtering (Capable of 8 ~ 75 Amps Continuous Operation) (Cont.)

| Fig. | Size Code | Dimensions - mm | | | Common Mode Impedance (Ω) | | Current Rating I Max. (A) Continuous | Digi-Key Part No. | Cut Tape Price Each | | | Digi-Key Part No. | Tape and Reel | | | | Steward Part No. | | |
|------|--------------|-----------------|-------|-------|---------------------------|--------|--------------------------------------|-------------------|---------------------|---------------|------|-------------------|---------------|----------|--------|---------------|------------------|----------|----------------|
| | | L | W | H | 100MHz | 300MHz | | | 10 | 50 | 100 | | Qty. | Pricing | Qty. | Pricing | | Qty. | Pricing |
| 3 | 6032 | 15.24 | 8.13 | 9.45 | 200 | 210 | 8 | 240-2468-1-ND | — | 2.11 | 1.83 | 240-2468-2-ND | 500 | 491.87 | 2,500 | 927.54/M | 5,000 | 899.43/M | CM6032V201R-10 |
| | | 15.24 | 8.13 | 14.48 | 300 | 300 | | | — | 3.11 | 2.70 | | — | 100 | 144.98 | 500 | 683.53 | 1,000 | |
| 4 | 2545 3440 | 11.38 | 6.30 | 9.32 | 170 | 180 | 10 | 240-2460-1-ND | — | 1.07 | .93 | 240-2460-2-ND | 400 | 198.34 | 2,000 | 467.55/M | 4,000 | 453.03/M | CM2545X171R-10 |
| | | 10.03 | 8.51 | 9.32 | 170 | 170 | | | 20 | 240-2463-1-ND | 1.42 | | 1.34 | 1.16 | 1.07 | 375 | 233.32 | 1,875 | |
| 5 | 4545 5740 | 11.38 | 11.38 | 9.32 | 130 | 145 | 10 | 240-2464-1-ND | — | 1.20 | 1.04 | 240-2464-2-ND | 400 | 223.32 | 2,000 | 526.35/M | 4,000 | 510.38/M | CM4545X131R-10 |
| | | 10.03 | 10.03 | 9.32 | 170 | 190 | | | 20 | 240-2467-1-ND | 1.80 | | 1.69 | 1.47 | 1.35 | 375 | 295.39 | 1,875 | |
| 7 | 2021 3421 | 5.60 | 5.00 | 2.85 | 33 | 35 | 15 | 240-2502-1-ND | — | .25 | .22 | 240-2502-2-ND | 2,500 | 113.99/M | 5,000 | 107.45/M | 10,000 | 103.82/M | CM2021Y330R-10 |
| | | 8.68 | 5.60 | 2.85 | 60 | 65 | | | 15 | 240-2501-1-ND | — | | .25 | .22 | 20 | 240-2501-2-ND | 2,500 | 113.99/M | |

High Current Thru Hole

| Fig. | Size Code | L | W | H | 100MHz | 300MHz | Current Rating I Max. (A) Continuous | Digi-Key Part No. | 10 | 50 | 100 | Digi-Key Part No. | Qty. | Pricing | Qty. | Pricing | Qty. | Pricing | Steward Part No. | |
|------|-----------|-------|-------|------|--------|--------|--------------------------------------|-------------------|------|------|-----|-------------------|------|---------|------|---------|------|---------|------------------|----------------|
| 4 | 2545 | 11.38 | 6.30 | 9.32 | 170 | 175 | 10 | 240-2485-ND† | .89 | .74 | .64 | — | — | — | — | — | — | — | — | CM2545X171B-10 |
| 5 | 4545 | 11.38 | 11.38 | 9.32 | 130 | 145 | 10 | 240-2486-ND† | 1.23 | 1.03 | .89 | .80 | — | — | — | — | — | — | — | CM4545X131B-10 |

Ultra High Current Thru Hole

| Fig. | Size Code | L | W | H | 100MHz | 300MHz | Current Rating I Max. (A) Continuous | Digi-Key Part No. | 10 | 50 | 100 | Digi-Key Part No. | Qty. | Pricing | Qty. | Pricing | Qty. | Pricing | Steward Part No. | |
|------|-----------|-------|-------|-------|--------|--------|--------------------------------------|-------------------|------|------|------|-------------------|------|---------|------|---------|------|---------|------------------|----------------|
| 4 | 3440 | 10.03 | 8.51 | 9.32 | 170 | 175 | 20 | 240-2487-ND† | 1.14 | .95 | .82 | .74 | — | — | — | — | — | — | — | CM3440Z171B-10 |
| 5 | 5740 | 14.48 | 10.03 | 9.32 | 170 | 175 | 20 | 240-2490-ND† | 1.50 | 1.24 | 1.07 | .96 | — | — | — | — | — | — | — | CM5740Z171R-10 |
| 6 | 5441 | 13.72 | 10.41 | 15.24 | 160 | 150 | 75 | 240-2488-ND† | 1.57 | 1.31 | 1.13 | 1.02 | — | — | — | — | — | — | — | CM5441Z161B-10 |
| | | 13.72 | 10.41 | 10.52 | 100 | 112 | 75 | 240-2489-ND† | 1.31 | 1.09 | .94 | .85 | — | — | — | — | — | — | — | CM5441Z101B-10 |

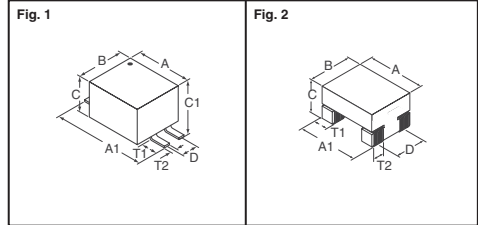
† Bulk Packaging

§ 240-2228-ND High Current (200mA ~ 75A) Common Mode Choke Sample Kit (4 each of parts denoted)..... 32.67

Common Mode Chokes for Data/Signal Lines and CAN-Bus Applications

Automotive, Medical, Industrial, Consumer Electronics, etc.
Strong low and high frequency impedance!

Surface mount chokes for Controller Area Networks (CAN-Bus) and other common mode EMI filtering applications. Current compensated surface mount chokes, filter common mode noise currents and minimize emissions from high speed data lines. Also suppresses interference with on-board electronics. Available in 1812 and 2824 sizes. Four chokes offer peak impedance below 10MHz. Over 12,000Ω at 2MHz. Operating Temp. Range: -40°C to +125°C for ≥ 1,000µH.



| Fig. | A | A1 Max. | B | C | C1 Max. | D | T1 | T2 | Steward Part No. Family |
|------|------|---------|------|------|---------|------|------|------|-------------------------|
| 1 | 7.50 | 9.00 | 5.50 | 3.80 | 4.90 | 2.54 | 1.75 | 0.50 | CC2824xxxxR-x0 |
| 2 | 5.00 | 5.20 | 3.50 | 3.55 | — | 1.70 | 1.00 | 1.00 | CC1812xxxxR-x0 |

| Fig. | Lp Inductance - µH | | | Typical Peak Impedance Ω @ MHz | TRP 100kHz/50mV | Hi-Pot (VAC) 0.5 mA, 2 sec. | DCR Typical (Ω) | Idc (mA) | Digi-Key Part No. | Cut Tape Price Each | | | Digi-Key Part No. | Tape and Reel | | Steward Part No. | |
|------|--------------------|---------------|---------|--------------------------------|-----------------|-----------------------------|-----------------|----------|-------------------|---------------------|---------------|------|-------------------|---------------|-----------|------------------|----------------|
| | Test Conditions | Min. | Nom. | | | | | | | Max. | 10 | 50 | | 100 | Qty. | | Pricing |
| 1 | 100kHz / 50mV | 3.5 | 5.0 | 6.5 | 388 @ 500 | 1: 1 ±5% | 250 | 0.10 | 1,200 | 240-2445-1-ND | 4.75 | 4.12 | 3.80 | 1,500 | 2215.03/M | CC2824E502R-10 | |
| | 100kHz / 50mV | 7.7 | 11.0 | 14.3 | 780 @ 200 | 1: 1 ±5% | 250 | 0.12 | 800 | 240-2446-1-ND | 3.86 | 3.35 | 3.09 | 1,500 | 1800.48/M | CC2824E113R-10 | |
| | 100kHz / 50mV | 17.5 | 25.0 | 32.5 | 1,971 @ 100 | 1: 1 ±5% | 250 | 0.13 | 800 | 240-2447-1-ND | 4.75 | 4.12 | 3.80 | 1,500 | 2215.03/M | CC2824E253R-10 | |
| | 100kHz / 50mV | 35.0 | 51.0 | 66.3 | 3,805 @ 50 | 1: 1 ±5% | 250 | 0.16 | 800 | 240-2448-1-ND | 2.53 | 2.19 | 2.02 | 1,500 | 1177.58/M | CC2824E513R-10 | |
| | 100kHz / 50mV | 329.0 | 470.0 | 611.0 | 8,580 @ 5 | 1: 1 ±5% | 750 | 0.20 | 700 | 240-2449-1-ND | 5.20 | 4.50 | 4.16 | 1,500 | 2422.66/M | CC2824E474R-10 | |
| | 100kHz / 50mV | 700.0 | 1,000.0 | 1,500.0 | 4,250 @ 7 | 1: 1 ±5% | 750 | 0.20 | 700 | 240-2450-1-ND | 5.09 | 4.41 | 4.07 | 1,500 | 2371.12/M | CC2824E105R-10 | |
| | 10kHz / 50mV | 1,540.0 | 2,200.0 | 3,300.0 | 5,278 @ 5 | 1: 1 ±5% | 750 | 0.40 | 500 | 240-2451-1-ND | 5.09 | 4.41 | 4.07 | 1,500 | 2371.12/M | CC2824D225R-10 | |
| | 10kHz / 50mV | 3,290.0 | 4,700.0 | 7,050.0 | 12,300 @ 2 | 1: 1 ±5% | 750 | 0.55 | 400 | 240-2452-1-ND | 4.75 | 4.12 | 3.80 | 1,500 | 2215.03/M | CC2824B475R-10 | |
| | 2 | 100kHz / 50mV | 35.7 | 51.0 | 66.3 | 3,530 @ 40 | 1: 1 ±5% | 250 | 0.50 | 200 | 240-2453-1-ND | 3.42 | 2.96 | 2.74 | 2,000 | 1592.85/M | CC1812C513R-10 |

‡ 240-2583-ND CAN-Bus Common Mode Sample Kit (5 each of parts denoted)..... 7.26

Differential Mode Surface Mount and Through Hole Ferrite EMI Filters



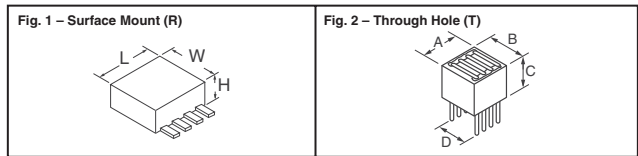
Differential Mode Multi-Line Arrays for Power EMI Filtering

3, 4, 5, and 8 Line Filters Rated up to 10 Amps Continuous Operation

These multi-line ferrite products provide economical EMI filtering of differential mode noise in surface mount and through hole PCB applications. They are designed to provide high frequency suppression of both common

and differential mode EMI noise on groups of data/power lines. The surface mount differential mode EMI filters are rated for up to 9 Amps continuous operation per filtered line (channel) and the through hole filters are rated

up to 10 Amps continuous operation per line. Rugged construction provides protection against transient events as well as much higher peak current handling capability than most other EMI suppression devices. Low DCR.



Surface Mount

| Fig. | Dimensions - mm | | | Typical Impedance (Ω) | | Current Rating I Max. (A) Continuous | No. of Lines | Digi-Key Part No. | Cut Tape Pricing | | | Digi-Key Part No. | Tape and Reel | | | | Steward Part No. | | | | | |
|------|-----------------|-------|------|-----------------------|--------|--------------------------------------|--------------|-------------------|------------------|---------------|---------------|-------------------|---------------|---------------|---------------|----------|------------------|----------|----------------|----------|----------------|----------------|
| | L | W | H | 100MHz | 300MHz | | | | 10 | 50 | 100 | | Qty. | Pricing | Qty. | Pricing | | Qty. | Pricing | | | |
| 1 | 8.33 | 10.87 | 6.35 | 200 | 210 | 9 | 3 | 240-2441-1-ND | 11.70 | 50.70 | 93.59 | 240-2441-2-ND | 450 | 245.68 | 2,250 | 514.74/M | 4,500 | 499.49/M | 29F0330-2SR-10 | | | |
| | 10.87 | 10.87 | 6.35 | 200 | 210 | | | | 8 | 240-2443-1-ND | 12.54 | 54.32 | 100.28 | 240-2443-2-ND | 450 | 263.32 | 2,250 | 551.76/M | 4,500 | 535.07/M | 29F0430-2SR-10 | |
| | 11.43 | 4.50 | 4.19 | 119 | 120 | | | | 6 | 8 | 240-2444-1-ND | 18.73 | 81.15 | 149.82 | 240-2444-2-ND | 900 | 786.69 | 4,500 | 824.02/M | 9,000 | 799.33/M | 29F0818-15R-10 |
| | 4.83 | 4.50 | 4.19 | 119 | 128 | | | | 6 | 3 | 240-2515-1-ND | 11.49 | 49.79 | 91.91 | 240-2515-2-ND | 900 | 402.86 | 4,500 | 505.30/M | 9,000 | 490.05/M | 29F0318-15R-10 |
| | 6.10 | 4.50 | 2.92 | 83 | 83 | | | | 6 | 4 | 240-2517-1-ND | 10.69 | 46.36 | 85.57 | 240-2517-2-ND | 900 | 449.54 | 4,500 | 470.45/M | 9,000 | 456.66/M | 29F0418-05R-10 |
| | 6.10 | 4.50 | 4.19 | 119 | 118 | | | | 6 | 4 | 240-2442-1-ND | 10.95 | 47.43 | 87.56 | 240-2442-2-ND | 900 | 459.67 | 4,500 | 481.56/M | 9,000 | 466.97/M | 29F0418-15R-10 |
| | 10.87 | 10.87 | 8.89 | 290 | 299 | | | | 9 | 4 | 240-2518-1-ND | 15.14 | 65.62 | 121.14 | 240-2518-2-ND | 400 | 282.56 | 2,000 | 666.47/M | 4,000 | 646.14/M | 29F0430-45R-10 |
| | 11.43 | 4.50 | 2.92 | 75 | 81 | | | | 6 | 8 | 240-2519-1-ND | 18.16 | 78.71 | 145.32 | 240-2519-2-ND | 900 | 763.17 | 4,500 | 799.33/M | 9,000 | 775.37/M | 29F0818-05R-10 |

Through Hole

| Fig. | No. of Lines | Dimensions - mm | | | | Current Rating I Max. (A) Continuous | Typical Impedance (Ω) | | | Digi-Key Part No. | Price Each | | | Steward Part No. |
|------|--------------|-----------------|-------|-------|------|--------------------------------------|-----------------------|----------|-------------|-------------------|------------|------|-----|------------------|
| | | A | B | C | D | | @ 100MHz | @ 300MHz | 1 | | 10 | 50 | 100 | |
| 2 | 3 | 7.62 | 5.08 | 10.44 | 2.54 | 8 | 266 | 288 | 240-2514-ND | .62 | .52 | .45 | .40 | 29F0303-0T0-10 |
| | 3 | 8.34 | 10.88 | 10.57 | 7.62 | 10 | 342 | 400 | 240-2516-ND | .82 | .68 | .59 | .50 | 29F0328-0T0-10 |
| | 4 | 10.87 | 10.87 | 10.57 | 7.62 | 10 | 342 | 400 | 240-2494-ND | .95 | .79 | .69 | .62 | 29F0428-0T0-10 |
| | 4 | 10.87 | 5.49 | 10.44 | 2.54 | 8 | 245 | 290 | 240-2495-ND | .73 | .61 | .52 | .47 | 29F0429-0T0-10 |
| | 5 | 13.41 | 10.87 | 10.57 | 7.62 | 10 | 342 | 400 | 240-2496-ND | 1.43 | 1.19 | 1.03 | .93 | 29F0528-0T0-10 |

(Continued)

Digi-Reel® Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.

Free shipping on orders over £50! All prices are in British pound sterling and include duties.

1470 (UK091) uk.digikey.com — FREEPHONE: 0-800-587-0991 • 0-800-904-7786 — FREEFAX: 0-800-587-0992 • 0-800-904-7783