

Steward

240-2228-ND (Steward K-103) High Current (4A to 75A) Common Mode Sample Kit (4 each of 25 different parts) ... \$60.00

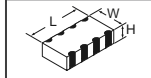
EMI Filters, Chokes, and Power Inductor Chips

Surface Mount Four - Line Chip Arrays for Differential Signal Filtering

Features: • Small footprint • Rugged construction • Broad range of impedance values • Good high frequency performance (peaks well above 100MHz) • Lower installation cost (one pick and place motion instead of four discrete installations) • Equivalent performance to four 0603 sized chips



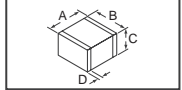
Call Digi-Key for Lead Free Versions of these Parts!



Size Code	Dimensions - mm			Filtered Circuits	Current Rating iMax (mA) Continuous	Typical Impedance @ 100 MHz		Cut Tape Price Each			Digi-Key Part No.	Tape & Reel Pricing			Steward Part No.
	Length	Width	Height			@ 100 MHz	@ 500 MHz	10	50	100		Digi-Key Part No.	3,000	Tape & Reel Pricing 6,000	
1206	3.20	1.60	0.80	4	500	30 Ω	240-1146-1-ND	.61	.53	.49	240-1146-2-ND	280.88/M	264.83/M	256.80/M	DA1206E300R-00
					300	120 Ω	240-1147-1-ND	.61	.53	.49	240-1147-2-ND	280.88/M	264.83/M	256.80/M	DA1206C121R-00
					400	300 Ω	240-1148-1-ND	.61	.53	.49	240-1148-2-ND	280.88/M	264.83/M	256.80/M	DA1206D301R-00
					200	600 Ω	240-1149-1-ND	.61	.53	.49	240-1149-2-ND	280.88/M	264.83/M	256.80/M	DA1206B601R-00
					200	1000 Ω	240-1150-1-ND	.69	.60	.55	240-1150-2-ND	318.33/M	300.14/M	291.04/M	DA1206B102R-00

NEW! Power Inductor Chip / Monolithic Surface Mount

Steward's DI2220V301R-00 is a surface mount, high current power inductor (in the industry's smallest package) with exceptional performance under DC Bias. Very low DCR provides superior thermal performance under DC bias. This compact, monolithic component produces flat inductance over the driven current range (from 3 to 8 amps) comparable to a larger, heavier, wire-wound toroidal inductor. EMI resistant, fully shielded internal coil. Tuned to work with the new generation of high frequency multiphase DC-DC converters. Mounting can be on back side of PC boards. Low profile, small footprint and vibration resistant.



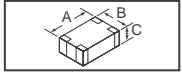
Size Code	Dimensions				L @ 2 MHz Typical nH (± 10%)	DCR Max. (Ω)	Rated I Max continuous (mA)	Digi-Key Part No.	Cut Tape Price Each			Digi-Key Part No.	Tape & Reel Pricing		Steward Part No.
	A (mm)	B (mm)	C (mm)	D (mm)					10	50	100		Digi-Key Part No.	Tape & Reel Pricing 2,000	
2220	5.59	5.08	3.61	0.76	300	270	0.010	8,000	240-2237-1-ND	1.73	1.43	1.02	240-2237-2-ND	670.89/M	DI2220V301R-00

NEW! Miniature High Current Common Mode Chokes

Steward's monolithic surface mount common mode chokes are designed for power and data line EMI filtering where high current, small size or high frequency performance is required. Low Normal Mode Impedance and Low DCR to minimize signal distortion. Up to 10 Amps continuous operating current capability in an 1812 size. Excellent performance beyond 1 GHz.



Call Digi-Key for Lead Free Versions of these Parts!



Size Code	Dimensions			Typical Impedance Common Mode (Ω)		DCR Max. (Ω)	Rated I Max Continuous (mA)	Digi-Key Part No.	Cut Tape Price Each			Digi-Key Part No.	Tape & Reel Pricing		Steward Part No.
	A (mm)	B (mm)	C (mm)	@ 100 MHz	@ 500 MHz				10	50	100		Digi-Key Part No.	2,500	
1812	4.57	3.05	1.60	33	50	0.003	10,000	240-2357-1-ND	.44	.39	.36	240-2357-2-ND	236.26/M	222.75/M	CM1812X330R-00
	4.57	3.05	2.36	60	85	0.005	5,000	240-2356-1-ND	.47	.41	.38	240-2356-2-ND	249.38/M	235.13/M	CM1812R600R-00

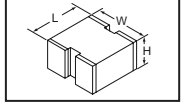
Common Mode Chip Beads for Power and Signal EMI Filtering

Features:

- Monolithic
- Compact size
- High current carrying capability
- Very low DCR to minimize signal distortion
- Smaller, lighter, and less susceptible to vibration than old style wire-wound chokes
- Performance peaks beyond 2 GHz



Call Digi-Key for Lead Free Versions of these Parts!



Size Code	Dimensions (mm)			Current Rating iMax (mA) Continuous	Typical Impedance Common Mode (Ω)		Digi-Key Part No.	Cut Tape Price Each			Digi-Key Part No.	Tape & Reel Pricing			Steward Part No.
	Length	Width	Height		@ 100 MHz	@ 500 MHz		10	50	100		Digi-Key Part No.	2,500	5,000	
Low Profile Surface Mount - Monolithic															
1922	4.70	5.60	2.84	10,000	33	58	240-1104-1-ND	.69	.60	.56	240-1104-2-ND	322.00/M	303.60/M	294.40/M	CM1922X330R-00
3322	8.50	5.60	2.10	7,000	61	85	240-1102-1-ND	.91	.79	.73	240-1102-2-ND	422.63/M	398.48/M	386.40/M	CM3322U610R-00
	8.50	5.60	2.84	10,000	63	110	240-1103-1-ND	.91	.79	.73	240-1103-2-ND	422.63/M	398.48/M	386.40/M	CM3322X630R-00
High Frequency - Low Profile Surface Mount - Monolithic															
3322	8.50	5.60	2.10	4,000	40	120	240-1101-1-ND	.91	.79	.73	240-1101-2-ND	422.63/M	398.48/M	386.40/M	CM3322P400R-00

Common Mode Chokes for Ultra High Current Power EMI Filtering

Fig. 1

Fig. 2

Fig. 3

Fig. 4

Fig. 5

Fig. 6

Fig. 7

Fig. 8

Features: • Surface mount design • Filters groups of signals. • Multi pass board layout application effectively installs 2, 3 or 4 chokes in series to multiply impedance up to 1000 Ohms at 100 MHz • High continuous operating current capability (8 Amps) • Will fit behind RJ45 Jack • Eliminates the need for an expensive filtered connector

Features: • High continuous operating current capability (10 - 20 Amps) • Compact size • Parts available in both thru-hole (B) and surface mount (R) versions

Features: • High continuous operating current capability (10 - 20 Amps) • Can be used as multi-pass device to multiply impedance • Available in both thru-hole (B) and surface mount (R) versions

Features: • Very high continuous operating current capability (up to 75 Amps) • Impedance over 100 Ohms at 50 MHz and 200 Ohms at 500 MHz • Small footprint • Smaller and lighter than older style wire wound high current chokes

Fig.	Size Code	Dimensions (mm)			Current Rating. iMax (A) Continuous	Common Mode Impedance @ 100 MHz	Digi-Key Part No.	Cut Tape Price Each			Digi-Key Part No.	Tape & Reel Pricing			Steward Part No.	
		Length	Width	Height				1	10	50		100	Digi-Key Part No.	1		5
High Power Surface Mount																
5	2545	11.38	6.30	9.32	10	170 Ω	240-1106-1-ND	—	1.05	.91	.84	240-1106-2-ND	194.46/400	916.74/2,000	1777.92/4,000	CM2545X171R-00
1	3032	7.62	8.13	9.45	8	200 Ω	240-1116-1-ND	—	1.32	1.15	1.06	240-1116-2-ND	725.79/1,250	1503.96/2,500	1407.60/2,500	CM3032V201R-00
1	3032	7.62	8.13	14.48	8	300 Ω	240-1118-1-ND	—	1.59	1.38	—	240-1118-2-ND	74.01/100	348.89/500	676.64/1,000	CM3032V301R-00
5	3440	10.03	8.51	9.32	20	170 Ω	240-2186-1-ND	—	1.17	1.01	.94	240-2186-2-ND	203.77/375	960.61/1,875	1863.00/3,750	CM3440Z171R-00
7	4545	11.38	11.38	9.32	10	130 Ω	240-1108-1-ND	—	1.38	1.20	1.11	240-1108-2-ND	257.60/400	1214.40/2,000	2355.20/4,000	CM4545Z131R-00
2	4732	11.94	8.13	9.45	8	200 Ω	240-1117-1-ND	—	1.63	1.41	1.31	240-1117-2-ND	303.52/400	1430.88/2,000	2775.04/4,000	CM4732V201R-00
2	4732	11.94	8.13	14.48	8	300 Ω	240-1119-1-ND	—	1.92	1.67	—	240-1119-2-ND	134.35/150	633.35/750	1228.32/1,500	CM4732V301R-00
7	5740	14.48	10.03	9.32	20	170 Ω	240-2189-1-ND	—	1.33	1.16	1.07	240-2189-2-ND	232.44/375	1095.81/1,875	2125.20/3,750	CM5740Z171R-00
3	6032	15.24	8.13	9.45	8	200 Ω	240-2191-1-ND	—	1.67	1.45	1.34	240-2191-2-ND	194.82/250	918.43/1,250	1781.20/2,500	CM6032V201R-00
3	6032	15.24	8.13	14.48	8	300 Ω	240-2192-1-ND	—	1.99	1.73	—	240-2192-2-ND	92.87/100	437.83/500	849.12/1,000	CM6032V301R-00
High Current Thru Hole																
4	2545	11.38	6.30	9.32	10	170 Ω	240-1105-ND†	.81	.67	.58	.52	—	—	—	—	CM2545X171B-00
6	4545	11.38	11.38	9.32	10	130 Ω	240-1107-ND†	.95	.79	.68	.61	—	—	—	—	CM4545Z131B-00
Ultra High Current Thru Hole																
4	3440	10.03	8.51	9.32	20	170 Ω	240-2185-ND†	.90	.75	.65	.58	—	—	—	—	CM3440Z171B-00
8	5441	13.72	10.41	15.24	75	160 Ω	240-1109-ND†	1.69	1.41	1.21	1.09	—	—	—	—	CM5441Z161B-00
8	5441	13.72	10.41	10.52	75	100 Ω	240-1110-ND†	1.61	1.34	1.15	1.04	—	—	—	—	CM5441Z101B-00
6	5740	14.48	10.03	9.32	20	170 Ω	240-2188-ND†	1.05	.88	.76	.68	—	—	—	—	CM5740Z171B-00

† Bulk Packaging

More Product Available Online: www.digikey.com