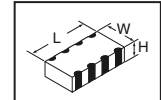


Size Code	Dimensions – mm			Current Rating Max. (mA) Continuous	Typical Impedance @ 100MHz (Ω)	Typical Peak Impedance (Ω)	Peak Impedance Frequency (MHz)	Digi-Key Part No.	Cut Tape Pricing			Digi-Key Part No.	Tape and Reel				Steward Part No.
	L	W	H						10	50	100		Qty.	Pricing	Qty.	Pricing	
2220	5.59	5.08	3.05	4,000	600	600	100	240-2427-1-ND	7.51	32.53	60.06	240-2427-2-ND	2,000	350.00/M	6,000	330.00/M	HI2220P601R-10
			3.05	4,000	700	700	100	240-2428-1-ND	7.43	32.19	59.43	240-2428-2-ND	2,000	347.00/M	6,000	327.00/M	HI2220P701R-10
			1.80	5,000	150	226	500	240-2429-1-ND	4.86	21.04	38.85	240-2429-2-ND	2,000	227.00/M	6,000	214.00/M	HI2220R151R-10
			3.20	4,000	270	390	300	240-2544-1-ND	6.41	27.76	51.24	240-2544-2-ND	2,000	299.00/M	6,000	282.00/M	HI2220P271R-10
			3.20	4,500	400	450	150	240-2545-1-ND	6.54	28.34	52.32	240-2545-2-ND	2,000	305.00/M	6,000	288.00/M	HI2220Q401R-10
	5.59	5.08	1.80	5,000	180	270	400	240-2546-1-ND	5.17	22.41	41.37	240-2546-2-ND	2,000	241.00/M	6,000	228.00/M	HI2220R181R-10
			3.20	5,000	300	374	200	240-2430-1-ND	6.90	29.90	55.20	240-2430-2-ND	2,000	322.00/M	6,000	304.00/M	HI2220R301R-10
			1.80	6,000	100	158	600	240-2431-1-ND	4.92	21.34	39.39	240-2431-2-ND	2,000	230.00/M	6,000	217.00/M	HI2220T101R-10
			3.05	4,000	600	600	104	240-2432-1-ND	9.88	42.82	79.05	240-2432-2-ND	2,000	461.00/M	6,000	435.00/M	HR2220P601R-10
			3.61	8,000	800	910	96	240-2433-1-ND	16.45	71.27	131.58	240-2433-2-ND	2,000	768.00/M	6,000	724.00/M	HR2220V801R-10
3312	8.50	3.05	2.28	10,000	100	173	1,059	240-2434-1-ND	10.13	43.88	81.00	240-2434-2-ND	2,500	479.00/M	5,000	452.00/M	DM3312X101R-10
			2.28	10,000	100	173	1,000	240-2498-1-ND	5.39	23.34	43.08	240-2498-2-ND	5,000	237.00/M	10,000	230.00/M	HI3312X101R-10

240-2227-ND Surface Mount Ferrite Chip Bead Sample Kit (10 – 30 samples of each part listed) \$60.00

EMI Filters, Chokes, Chips and Power Inductor Chips

Surface Mount Four Line Chip Arrays for Differential Signal Filtering



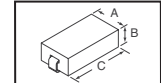
Features: • Small footprint • Rugged construction • Broad range of impedance values • Good high frequency performance (peaks well above 100MHz) • Lower installation cost (one pick and place motion instead of four discrete installations) • Equivalent performance to four 0603 sized chips

Size Code	Dimensions – mm			Typical Impedance (Ω) @ 100MHz	Typical Peak Impedance (Ω)	Peak Impedance Frequency (MHz)	Number of Filtered Circuits	Current Rating Max. (mA) Continuous	Digi-Key Part No.	Cut Tape Price Each			Digi-Key Part No.	Tape and Reel				Steward Part No.		
	L	W	H							10	50	100		Qty.	Pricing	Qty.	Pricing		Qty.	Pricing
1206	3.20	1.60	0.80	1,000	1,129	175	4	200	240-2483-1-ND	1.21	1.05	.97	240-2483-2-ND	3,000	561.00/M	6,000	529.00/M	9,000	513.00/M	DA1206B102R-10
				600	761	214	4	200	240-2482-1-ND	1.21	1.05	.97	240-2482-2-ND	3,000	561.00/M	6,000	529.00/M	9,000	513.00/M	DA1206B601R-10
				120	211	559	4	300	240-2480-1-ND	1.21	1.05	.97	240-2480-2-ND	3,000	561.00/M	6,000	529.00/M	9,000	513.00/M	DA1206C121R-10
				300	450	500	4	400	240-2481-1-ND	1.21	1.05	.97	240-2481-2-ND	3,000	561.00/M	6,000	529.00/M	9,000	513.00/M	DA1206D301R-10
				60	133	1,103	4	400	240-2539-1-ND	1.21	1.05	.97	240-2539-2-ND	3,000	561.00/M	6,000	529.00/M	9,000	513.00/M	DA1206D600R-10
				30	56	1,161	4	500	240-2479-1-ND	1.21	1.05	.97	240-2479-2-ND	3,000	561.00/M	6,000	529.00/M	9,000	513.00/M	DA1206E300R-10

E

Single Line Surface Mount Differential Mode Bead Assemblies

Steward SMT Bead Assemblies provide filtering in circuits carrying up to 10 Amps continuous current. Products are offered for low frequency and high frequency EMI filtering. The robust construction and low DCR are well suited for applications operating in extreme conditions or applications that are sensitive to added circuit DCR.

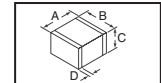


Features: • 10 Amps Continuous Operating Current Capability • Very Low DCR • Broadband (28F) and Low Frequency (35F) parts available

Size Code	Dimensions – mm			Typical Impedance (Ω) @ 100MHz	Peak Impedance Frequency (MHz)	DCR Max. (Ω)	Rated I Max. Continuous (mA)	Digi-Key Part No.	Cut Tape Pricing			Digi-Key Part No.	Tape and Reel				Steward Part No.
	A	B	C						10	50	100		Qty.	Pricing	Qty.	Pricing	
1612	3.05	2.54	4.06	36	34	800	10,000	240-2520-1-ND	2.53	10.97	20.25	240-2520-2-ND	2,500	118.00/M	5,000	111.00/M	35F0121-OSR-10
3312	3.05	2.54	8.51	75	67	17	10,000	240-2435-1-ND	2.76	11.94	22.05	240-2435-2-ND	2,500	129.00/M	5,000	121.00/M	28F0121-OSR-10
3318	4.57	2.54	8.51	96	115	833	10,000	240-2521-1-ND	3.13	13.57	25.05	240-2521-2-ND	2,500	146.00/M	5,000	138.00/M	35F0121-ISR-10
				115	123	900	10,000	240-2436-1-ND	3.45	14.93	27.57	240-2436-2-ND	2,500	161.00/M	5,000	152.00/M	28F0121-ISR-10
3318	4.57	2.54	8.51	96	115	833	10,000	240-2511-1-ND	3.18	13.80	25.47	240-2511-2-ND	2,500	149.00/M	5,000	140.00/M	28F0181-ISR-10

Power Inductor Chip / Monolithic Surface Mount

Steward's DI2220V301R-10 is a surface mount, high current power inductor (the industry's smallest package) with exceptional performance under DC Bias. Features: • Very low DCR provides superior thermal performance under DC bias • Compact, monolithic component produces flat inductance over the driven current range (from 3 – 8 amps) comparable to a larger, heavier, wire-wound toroidal inductor • EMI resistant, fully shielded internal coil • Tuned to work with high frequency multiphase DC-DC converters • Mounting can be on back side of PC boards • Low profile, small footprint and vibration resistant

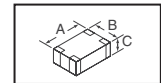


Size Code	Dimensions – mm				L @ 2MHz Typical nH (±10%)	DCR Max. (Ω)	Rated I Max. Continuous (mA)	Digi-Key Part No.	Cut Tape Price Each			Digi-Key Part No.	Tape and Reel		Steward Part No.	
	A	B	C	D					5 Amps	8 Amps	10		50	100		Qty.
2220	5.59	5.08	3.61	0.76	300	270	0.010	8,000	240-2484-1-ND	1.60	1.39	1.28	240-2484-2-ND	2,000	703.00/M	DI2220V301R-10

Miniature High Current Common Mode Choke Chip Beads

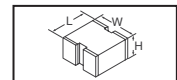
Steward's monolithic surface mount common mode chokes are designed for power and data line EMI filtering where high current, small size or high frequency performance is required.

Features: • Low Normal Mode Impedance and Low DCR to minimize signal distortion • Up to 10 Amps continuous operating current capability in an 1812 size • Vibration resistant • Excellent performance beyond 1GHz • Very stable impedance under load



Size Code	Dimensions – mm			Typical Impedance Common Mode (Ω)		Peak Impedance Frequency (MHz)	DCR Max. (Ω)	Rated I Max. Continuous (mA)	Cut Tape Price Each	Digi-Key Part No.	Tape and Reel			Steward Part No.			
	A	B	C	@ 100MHz	@ 500MHz						Qty.	Pricing	Qty.		Pricing		
1812	4.57	3.05	1.60	33	62	2,359	0.003	10,000	.72	.62	.57	240-2455-2-ND	2,500	332.00/M	5,000	313.00/M	CM1812X330R-10
	4.57	3.05	2.36	60	112	1,519	0.0005	5,000	.75	.65	.60	240-2454-2-ND	2,500	349.00/M	5,000	329.00/M	CM1812R600R-10
3312	8.50	3.05	2.36	110	168	800	0.005	5,000	.89	.77	.71	240-2500-2-ND	2,500	413.00/M	5,000	389.00/M	CM3312R111R-10

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 wire-wound chokes • Performance peaks beyond 2GHz • Very stable impedance under load

Size Code	Dimensions – mm			Typical Impedance Common Mode (Ω)		Peak Impedance Frequency (MHz)	DCR Max. (Ω)	Current Rating I Max. (mA) Continuous	Digi-Key Part No.	Cut Tape Price Each			Digi-Key Part No.	Tape and Reel				Steward Part No.		
	L	W	H	100MHz	500MHz					10	50	100		Qty.	Pricing	Qty.	Pricing		Qty.	Pricing
Low Profile Surface Mount - Monolithic																				
1922	4.70	5.60	2.84	33	64	1,783	.003	10,000	240-2456-1-ND	.82	.71	.66	240-2456-2-ND	2,500	381.00/M	5,000	360.00/M	10,000	349.00/M	CM1922X330R-10
3322	8.50	5.60	2.10	61	123	1,581	.009	7,000	240-2457-1-ND	.95	.82	.76	240-2457-2-ND	2,500	440.00/M	5,000	415.00/M	10,000	403.00/M	CM3322U610R-10
	8.50	5.60	2.84	63	114	1,459	.008	10,000	240-2458-1-ND	1.07	.93	.86	240-2458-2-ND	2,500	497.00/M	5,000	469.00/M	10,000	454.00/M	CM3322X630R-10
High Frequency - Low Profile Surface Mount - Monolithic																				
3322	8.50	5.60	2.10	40	121	1,931	.030	4,000	240-2459-1-ND	1.00	.86	.80	240-2459-2-ND	2,500	463.00/M	5,000	436.00/M	10,000	423.00/M	CM3322P400R-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.

More Product Available Online: www.digikey.com

Toll-Free: 1-800-344-4539 • Phone 218-681-6674 • Fax: 218-681-3380

(T091) 1533