

Common Mode Chokes for Ultra High Current Power EMI Filtering (Capable of 8 to 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			1	10	50		100	Qty.	Pricing	Qty.		Pricing	Qty.	Pricing	
3	6032	15.24	8.13	9.45	200	210	8	240-2468-1-ND	—	2.91	2.52	2.33	240-2468-2-ND	250	338.75	1,250	1278.00/M	2,500	1239.00/M	CM6032V201R-10 CM6032V301R-10	
		15.24	8.13	14.48	300	300			—	4.28	3.71	—		100	199.70	500	941.50	1,000	1826.00		
4	2545 3440	11.38	6.30	9.32	170	180	10	240-2460-1-ND	—	1.47	1.27	1.18	240-2460-2-ND	400	273.20	2,000	644.00/M	4,000	624.00/M	CM2545X171R-10 CM3440Z171R-10	
		10.03	8.51	9.32	170	170			20	240-2463-1-ND	1.96	1.84		1.60	1.47	375	321.38	1,875	808.00/M		3,750
5	4545 5740	11.38	11.38	9.32	130	145	10	240-2464-1-ND	—	1.65	1.43	1.32	240-2464-2-ND	400	307.60	2,000	725.00/M	4,000	703.00/M	CM4545Z131R-10 CM5740Z171R-10	
		14.48	10.03	9.32	170	190			20	240-2467-1-ND	2.48	2.33		2.02	1.86	375	406.88	1,875	1023.01/M		3,750
7	2021 3421	5.60	5.00	2.85	33	35	15	240-2502-1-ND	—	.34	.30	.27	240-2502-2-ND	2,500	157.00/M	5,000	148.00/M	10,000	143.00/M	CM2021Y330R-10 CM3421Y600R-10	
		8.68	5.60	2.85	60	65			15	240-2501-1-ND	—	.34		.30	.27	2,500	157.00/M	5,000	148.00/M		10,000
High Current Thru Hole																					
4	2545	11.38	6.30	9.32	170	175	10	240-2485-ND†	1.22	1.02	.88	.79	—	—	—	—	—	—	—	CM2545X171B-10	
5	4545	11.38	11.38	9.32	130	145	10	240-2486-ND†	1.70	1.41	1.22	1.10	—	—	—	—	—	—	—	CM4545Z131B-10	
Ultra High Current Thru Hole																					
4	3440	10.03	8.51	9.32	170	175	20	240-2487-ND†	1.57	1.31	1.13	1.01	—	—	—	—	—	—	—	CM3440Z171B-10	
5	5740	14.48	10.03	9.32	170	175	20	240-2490-ND†	2.06	1.71	1.47	1.33	—	—	—	—	—	—	—	CM5740Z171B-10	
6	5441	13.72	10.41	15.24	160	150	75	240-2488-ND†	2.16	1.80	1.55	1.40	—	—	—	—	—	—	—	—	CM5441Z161B-10
		13.72	10.41	10.52	100	112			75	240-2489-ND†	1.81	1.50	1.29	1.17	—	—	—	—	—	—	—

† Bulk Packaging

§ 240-2228-ND High Current (200mA - 75A) Common Mode Choke Sample Kit (4 each of parts denoted)..... \$45.00

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

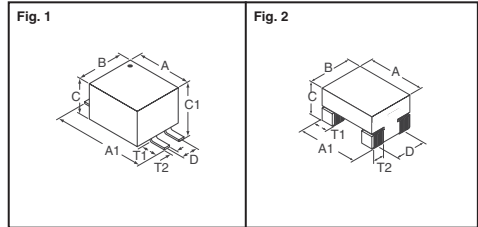


Fig.	Lp Inductance - µH			Typical Peak Impedance Ω @ MHz	TRP 100kHz/50mV	Hi-Pot (VAC) 0.5 mA, 2 sec.	DCR Typical (Ω)	Idc (mA)	Digi-Key Part No.	Cut Tape Price Each			Digi-Key Part No.	Tape and Reel		Steward Part No.	
	Test Conditions	Min.	Nom.							Max.	10	50		100	Qty.		Pricing
1	100kHz / 50mV	3.5	5.0	6.5	388 @ 500	1: 1 ± 5%	250	0.10	1,200	240-2445-1-ND	6.54	5.67	5.24	240-2445-2-ND	1,500	3051.00/M	CC2824E502R-10
	100kHz / 50mV	7.7	11.0	14.3	780 @ 200	1: 1 ± 5%	250	0.12	800	240-2446-1-ND	5.32	4.61	4.26	240-2446-2-ND	1,500	2480.00/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	6.54	5.67	5.24	240-2447-2-ND	1,500	3051.00/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	3.48	3.02	2.79	240-2448-2-ND	1,500	1622.00/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	7.16	6.20	5.73	240-2449-2-ND	1,500	3337.00/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	7.00	6.07	5.60	240-2450-2-ND	1,500	3266.00/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	7.00	6.07	5.60	240-2451-2-ND	1,500	3266.00/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	6.54	5.67	5.24	240-2452-2-ND	1,500	3051.00/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	4.71	4.08	3.77	240-2453-2-ND	2,000	2194.00/M	CC1812C513R-10

‡ 240-2583-ND CAN-Bus Common Mode Sample Kit (5 each of parts denoted)..... \$10.00

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	16.11	69.83	128.91	240-2441-2-ND	450	338.40	2,250	709.00/M	4,500	688.00/M	29F0330-2SR-10				
	10.87	10.87	6.35	200	210				8	4	240-2443-1-ND		17.27	74.82	138.12	240-2443-2-ND	450	362.70	2,250	760.00/M	4,500	737.00/M	29F0430-2SR-10
	11.43	4.50	4.19	119	120				6	8	240-2444-1-ND		25.80	111.78	206.37	240-2444-2-ND	900	1083.60	4,500	1135.00/M	9,000	1101.00/M	29F0818-1SR-10
	4.83	4.50	4.19	119	128				6	3	240-2515-1-ND		15.83	68.58	126.60	240-2515-2-ND	900	665.10	4,500	696.00/M	9,000	675.00/M	29F0318-1SR-10
	6.10	4.50	2.92	83	83				6	4	240-2517-1-ND		14.73	63.85	117.67	240-2517-2-ND	900	619.20	4,500	648.00/M	9,000	629.00/M	29F0418-0SR-10
	6.10	4.50	4.19	119	118				6	4	240-2442-1-ND NEW!		15.08	65.33	120.60	240-2442-2-ND NEW!	900	633.60	4,500	663.00/M	9,000	643.00/M	29F0418-1SR-10
	10.87	10.87	8.89	290	299				9	4	240-2518-1-ND		20.86	90.38	166.86	240-2518-2-ND	400	389.20	2,000	918.00/M	4,000	890.00/M	29F0430-4SR-10
	11.43	4.50	2.92	75	81				6	8	240-2519-1-ND		25.02	108.42	200.16	240-2519-2-ND	900	1051.20	4,500	1101.00/M	9,000	1068.00/M	29F0818-0SR-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	.85	.71	.61	.55	29F0303-0T0-10	
	3	8.34	10.88	10.57	7.62	10	342	400	240-2516-ND	1.13	.94	.81	.73	29F0328-0T0-10	
	4	10.87	10.87	10.57	7.62	10	342	400	240-2494-ND	1.31	1.09	.94	.85	29F0428-0T0-10	
	4	10.87	5.49	10.44	2.54	8	245	290	240-2495-ND	1.00	.83	.72	.65	29F0429-0T0-10	
	5	13.41	10.87	10.57	7.62	10	342	400	240-2496-ND	1.97	1.64	1.41	1.27	29F0528-0T0-10	

(Continued)

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