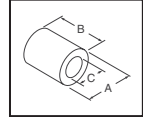




Ferrite EMI Cores for Cables and Wiring Harnesses

Low Frequency (300kHz ~ 30MHz) Cores for Round Cables

Steward LFB ferrite material provides excellent impedance at lower frequencies. Optimum EMI attenuation is between 300kHz and 30MHz, however, with additional wire turns, much broader EMI frequencies can be effectively attenuated.



Additional wire turns will multiply impedance.

Dimensions - mm			Net Impedance (Ω)						Digi-Key Part No.	Pricing					Steward Part No.
			@ 1MHz (1 Turn)	@ 1MHz (2 Turn)	@ 1MHz (5 Turn)	@ 5MHz (1 Turn)	@ 5MHz (2 Turn)	@ 5MHz (5 Turn)		1	10	50	100	500	
9.00	7.00	5.00	21	90	558	36	140	867	240-2135-ND\$	.15	1.26	5.44	9.79	39.15	LFB090050-000
9.50	19.05	5.10	63	240	1464	86	332	2514	240-2277-ND\$	.45	3.71	15.99	28.78	115.11	LFB095051-000
12.70	7.00	7.92	16	70	436	25	102	593	240-2278-ND\$	.19	1.55	6.66	11.99	47.97	LFB127079-000
14.27	28.58	6.35	122	490	2842	120	480	2646	240-2279-ND\$	1.71	14.14	60.94	109.69	438.75	LFB143064-000
14.27	13.46	6.35	57	220	1169	53	215	1552	240-2136-ND\$	.79	6.57	28.30	50.94	203.76	LFB143064-100
15.88	28.58	7.87	105	410	2615	100	390	2305	240-2281-ND\$	1.09	9.05	39.00	70.20	280.80	LFB159079-000
17.40	28.58	9.50	91	350	2184	85	340	2044	240-2282-ND\$	2.16	17.92	77.25	139.05	556.20	LFB174095-000
18.10	10.00	10.00	31	138	809	29	115	722	240-2283-ND\$	.51	4.23	18.25	32.85	131.40	LFB180100-000
18.70	28.58	10.16	91	350	1969	84	330	1863	240-2284-ND\$	2.34	19.36	83.44	150.19	600.75	LFB187102-000
22.10	12.70	14.00	30	30	818	28	110	699	240-2137-ND\$	.65	5.41	23.30	41.94	167.76	LFB220140-000
25.00	13.00	15.00	34	136	850	26	80	624	240-2285-ND\$	.92	7.66	33.00	59.40	237.60	LFB250150-000
25.91	28.58	12.83	106	420	2647	62	240	1487	240-2138-ND\$	3.30	27.37	117.96	212.33	849.33	LFB259128-000
28.98	15.21	19.05	34	155	963	22	70	573	240-2286-ND\$	1.47	12.16	52.41	94.34	377.37	LFB290190-000
31.00	13.00	19.00	33	143	845	22	88	554	240-2139-ND\$	1.45	11.98	51.63	92.93	371.70	LFB310190-000
36.00	15.00	23.00	27	110	653	19	75	438	240-2287-ND	2.80	23.18	99.90	179.82	719.28	LFB360230-300

§ 240-2508-ND Ferrite Low Frequency EMI Cores for Round Cables and Wire Bundles Sample Kit (4-16 each of parts denoted)..... 60.00

Ferrite Cylinders and Toroids for Electromagnetic Interference (EMI)



Broad Band (optimized 30MHz ~ 800MHz +) Bead Cores for Round Cables and Wire Bundles

One-piece ferrite tubular bead cores for effectively attenuating a broad range of conducted and radiated electromagnetic interference (EMI). Install over round cables or wire bundles. Ferrite beads can be over molded or covered with heat shrink coating if desired. Additional wire turns will multiply impedance. Steward's cylindrical beads for round cables in Broad Band 28 material provide

the smallest and most cost effective EMI solution when filtering both common mode and differential mode EMI on internal and external cable assemblies. By using Steward's high performance material, one is able to use the smallest and lowest weight core size possible with the highest EMI attenuation performance available.

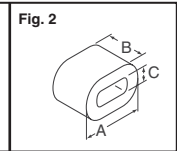
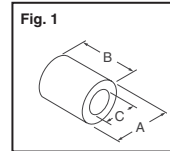


Fig.	Dimensions - mm			Typical Impedance Ω			Digi-Key Part No.	Pricing					Steward Part No.
	A	B	C	@ 50MHz	@ 100MHz	@ 300MHz		1	10	50	100	500	
1	6.35	15.88	3.18	131	182	300	240-2289-ND	.14	1.17	5.04	9.07	36.27	28B0250-100
	6.78	14.22	3.99	100	138	260	240-2112-ND	.14	1.12	4.83	8.69	34.74	28B0268-000
	7.00	13.50	3.80	84	146	268	240-2290-ND	.14	1.16	4.99	8.98	35.91	28B0275-000
	8.00	4.78	3.17	69	100	220	240-2291-ND	.12	.97	4.19	7.54	30.15	28B0315-000
	8.00	10.06	3.17	112	158	281	240-2292-ND	.15	1.22	5.26	9.47	37.89	28B0315-100
	8.60	10.00	3.80	85	143	264	240-2293-ND	.15	1.27	5.46	9.83	39.33	28B0339-000
	9.00	20.00	4.75	148	205	360	240-2295-ND	.21	1.76	7.58	13.64	54.54	28B0355-000
	9.53	14.48	5.08	114	154	282	240-2067-ND	.19	1.55	6.69	12.04	48.15	28B0375-100
	9.53	19.05	5.08	146	194	310	240-2113-ND	.22	1.82	7.86	14.15	56.61	28B0375-300
	9.53	4.83	5.08	52	81	200	240-2296-ND	.12	1.02	4.39	7.90	31.59	28B0375-400
	9.75	10.00	3.80	125	159	286	240-2297-ND	.18	1.45	6.26	11.27	45.09	28B0384-000
	9.75	25.00	3.80	254	322	473	240-2298-ND	.30	2.51	10.84	19.51	78.03	28B0384-200
9.91	15.00	6.35	88	128	248	240-2299-ND	.18	1.50	6.46	11.63	46.53	28B0390-200	
12.00	10.00	3.55	152	195	320	240-2240-ND	.23	1.87	8.08	14.54	58.14	28B0473-000	
12.00	25.00	3.55	318	424	558	240-2241-ND	.43	3.60	15.51	27.92	111.69	28B0473-200	
12.32	25.40	4.88	253	320	450	240-2114-ND	.43	3.60	15.50	27.90	111.60	28B0485-000	
12.70	6.35	7.92	52	83	200	240-2301-ND	.16	1.29	5.58	10.04	40.14	28B0500-100	
14.27	10.16	6.35	101	145	270	240-2302-ND	.26	2.18	9.38	16.88	67.50	28B0562-000	
14.27	28.58	6.35	262	317	470	240-2078-ND	.58	4.81	20.74	37.33	149.31	28B0562-200	
14.27	15.24	7.26	121	173	295	240-2303-ND	.33	2.76	11.91	21.44	85.77	28B0563-000	
14.27	28.57	7.26	197	287	406	240-2304-ND	.55	4.53	19.54	35.17	140.67	28B0563-200	
14.48	5.51	8.51	51	82	200	240-2305-ND	.17	1.41	6.06	10.91	43.65	28B0570-000	
15.00	35.00	5.90	348	450	580	240-2242-ND	.79	6.57	28.31	50.96	203.85	28B0591-200	
15.65	28.58	7.00	232	310	450	240-2306-ND	.68	5.64	24.30	43.74	174.96	28B0616-000	
15.88	14.27	7.87	87	163	273	240-2307-ND	.38	3.11	13.43	24.17	96.66	28B0625-000	
15.88	28.58	7.87	209	280	400	240-2115-ND	.66	5.49	23.65	42.57	170.28	28B0625-100	
16.00	28.00	9.25	171	243	370	240-2308-ND	.60	4.94	21.29	38.32	153.27	28B0631-100	
17.42	6.35	9.52	61	91	214	240-2310-ND	.23	1.93	8.30	14.94	59.76	28B0686-000	
17.42	28.57	9.52	191	242	390	240-2079-ND	.73	6.06	26.11	47.00	188.01	28B0686-200	
18.67	28.58	10.16	197	250	400	240-2080-ND	.83	6.88	29.66	53.39	213.57	28B0735-000	
18.67	14.27	10.16	108	150	270	240-2311-ND	.46	3.79	16.35	29.43	117.72	28B0735-300	
22.10	6.35	13.72	53	85	205	240-2312-ND	.29	2.41	10.39	18.70	74.79	28B0870-000	
22.10	12.70	13.72	80	122	236	240-2116-ND	.49	4.05	17.46	31.43	125.73	28B0870-100	
25.40	12.70	15.49	83	122	247	240-2313-ND	.63	5.21	22.45	40.41	161.64	28B0999-000	
25.40	12.70	12.70	106	151	278	240-2117-ND	.74	6.10	26.29	47.32	189.27	28B1000-000	
25.91	28.58	12.83	104	276	412	240-2081-ND	1.62	13.40	57.78	104.00	415.98	28B1020-100	
28.50	28.58	13.77	218	307	440	240-2243-ND	1.96	16.21	69.89	125.80	503.19	28B1122-100	
29.01	7.49	19.00	53	85	200	240-2118-ND	.47	3.87	16.68	30.02	120.06	28B1142-000	
29.01	13.84	19.00	77	114	235	240-2314-ND	.79	6.55	28.23	50.81	203.22	28B1142-100	
31.12	15.93	19.05	100	140	270	240-2315-ND	1.10	9.15	39.43	70.97	283.86	28B1225-000	
31.75	22.22	19.05	134	186	292	240-2119-ND	1.60	13.28	57.24	103.03	412.11	28B1250-000	
36.00	12.70	23.00	78	115	230	240-2317-ND	1.11	9.22	39.76	71.57	286.29	28B1417-200	
39.12	22.22	16.76	204	254	405	240-2319-ND	3.03	25.07	108.05	194.49	777.96	28B1540-000	
50.80	28.70	25.40	218	305	442	240-2244-ND	5.97	49.46	213.20	383.76	1535.04	28B2000-100	
60.96	12.70	35.56	90	135	285	240-2120-ND	3.07	25.46	109.75	197.55	790.20	28B2400-000	
2	38.86	28.58	12.95	161	210	347	240-2318-ND	2.25	18.66	80.43	144.77	579.06	28B1531-000
	19.64	12.70	5.10	100	141	273	240-2497-ND	.67	5.54	23.90	43.02	172.08	28B0773-050

240-2505-ND Ferrite Broad Band EMI Cores for Round Cables and Wire Bundles Sample Kit (1-12 each of 36 part sizes)..... 60.00 (Continued)

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