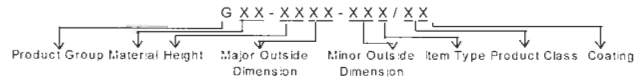


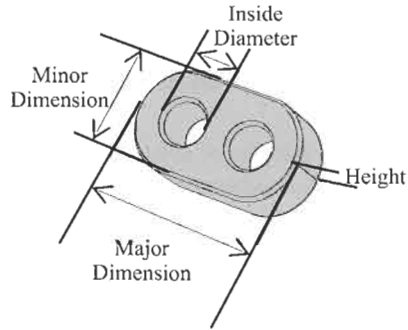
Product Group G: Balun Cores

Originally designed for balun transformers, matching balanced to unbalanced circuits in the television frequency spectrum, these cores can also be used for wideband and pulse transformers and interference suppression.



Multiperture cores are designed as suppression components which are compact in size and provide high resistive impedance over a wide frequency band. These cores avoid the self resonance effects experienced with single aperture cores wound with multiple turns. The components listed below are available in a wide variety of materials.

Core Part No.	Units	Height	Major Outside Dimension	Minor Outside Dimension	Inside Diameter	C ₁ (cm)	L _e (cm)	A _e (cm)	V _e (cm)
G__-153Y-2B1/1	in mm	0.040 1.016	0.138 3.505	0.081 2.057	0.034 0.864	44.5	4.0589	0.09116	3.70020
G__-1141-2D1/1	in mm	0.053 1.346	0.141 3.581	0.083 2.108	0.034 0.864	32.7	4.1015	0.12548	5.14676
G__-1K3Y-2B1/1	in mm	0.055 1.397	0.138 3.505	0.081 2.057	0.034 0.864	32.4	4.0589	0.12535	5.08777
G__-1Q3Y-2B1/1	in mm	0.060 1.524	0.138 3.505	0.081 2.057	0.034 0.864	29.7	4.0589	0.13674	5.55030
G__-1Q41-2D1/1	in mm	0.060 1.524	0.141 3.581	0.083 2.108	0.034 0.864	28.9	4.1015	0.14206	5.82652
G__-203Y-2B1/1	in mm	0.070 1.778	0.138 3.505	0.081 2.057	0.034 0.864	25.4	4.0589	0.15953	6.47535
G__-2V3Y-2B1/1	in mm	0.100 2.540	0.138 3.505	0.081 2.057	0.034 0.864	17.8	4.0589	0.22790	9.25050
G__-2V41-2D1/1	in mm	0.100 2.540	0.141 3.581	0.083 2.108	0.034 0.864	17.3	4.1015	0.23676	9.71087
G__-3K7Q-4F1/1	in mm	0.125 3.175	0.270 6.858	0.155 3.937	0.073 1.854	16.4	8.2909	0.50473	41.84635
G__-3K7V-4F1/1	in mm	0.125 3.175	0.275 6.985	0.155 3.937	0.073 1.854	16.4	8.2909	0.50473	41.84635
G__-5Q4Q-2I1/1	in mm	0.200 5.080	0.165 4.191	0.098 2.489	0.037 0.940	7.9	4.6202	0.58217	26.89737
G__-6Z80-4Q1/1	in mm	0.244 6.198	0.280 7.112	0.165 4.191	0.073 1.854	7.8	8.5196	1.09648	93.41530
G__-757Q-4F1/1	in mm	0.250 6.350	0.270 6.858	0.155 3.937	0.070 1.778	7.8	8.0970	1.04080	84.27305
G__-8K7V-4F1/1	in mm	0.300 7.620	0.275 6.985	0.155 3.937	0.073 1.854	6.8	8.2909	1.21135	100.43125
G__-FKFA-8Q1/1	in mm	0.545 13.843	0.535 13.589	0.305 7.747	0.170 4.318	4.9	17.9140	3.69112	661.22674
G__-1F33-1Q1/1	in mm	0.050 1.270	0.108 2.743	0.060 1.524	0.022 0.559	30.8	2.7810	0.09024	2.50950
G__-1V3Y-2B1/1	in mm	0.065 1.651	0.138 3.505	0.081 2.057	0.034 0.864	27.4	4.0589	0.14814	6.01282
G__-3K80-4Q1/1	in mm	0.125 3.175	0.280 7.112	0.165 4.191	0.073 1.854	15.2	8.5196	0.56172	47.85620
G__-8QF0-8F1/1	in mm	0.410 10.414	0.525 13.335	0.295 7.493	0.150 3.810	5.6	16.4700	2.95404	486.53085

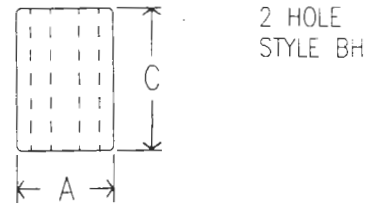
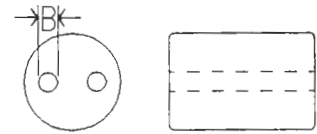
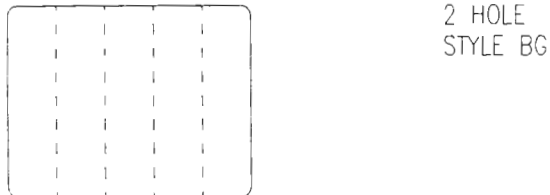
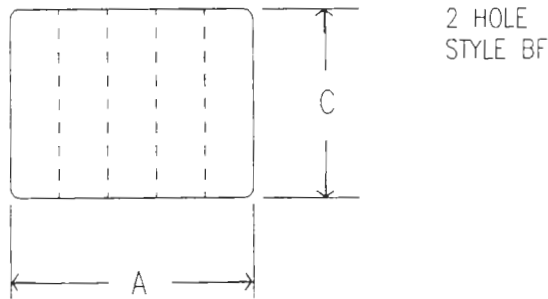
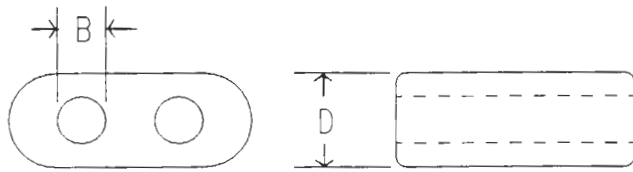


Typical A_L Values in $nH/turn^2$

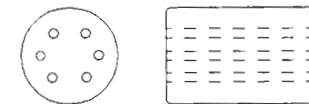
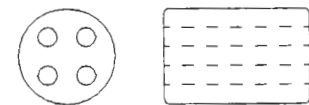
MMG Part No.	Ni-Zn								
	F31 15	F21 40	F01 120	F14 220	F24 350	FA1 370	F52 850	F53 1050	FF1 1500
G -153Y-2B1/1	4	11	34	62	99	104	240	296	423
G -1I41-2D1/1	6	15	46	85	135	142	327	404	577
G -1K3Y-2B1/1	6	16	47	85	136	144	330	407	582
G -1Q3Y-2B1/1	6	17	51	93	148	157	360	445	635
G -1Q41-2D1/1	7	17	52	96	152	161	370	457	653
G -203Y-2B1/1	7	20	59	109	173	183	420	519	741
G -2V3Y-2B1/1	11	28	85	155	247	261	600	741	1058
G -2V41-2D1/1	11	29	87	160	254	268	617	762	1088
G -3K7Q-4F1/1	11	31	92	168	268	283	650	803	1148
G -3K7V-4F1/1	11	31	92	168	268	283	650	803	1148
G -5Q4Q-2T1/1	24	63	190	348	554	586	1346	1663	2375
G -6Z80-4Q1/1	24	65	194	356	566	598	1375	1698	2426
G -757Q-4F1/1	24	65	194	355	565	598	1373	1696	2423
G -8K7V-4F1/1	28	73	220	404	643	679	1561	1928	2754
G -FKFA-8Q1/1	39	104	311	570	906	958	2201	2719	3884
G -1F33-1Q1/1	6.1	16.3	48.9	89.7	142.7	150.9	346.6	428.1	611.6
G -1V3Y-2B1/1	6.9	18.3	55.0	100.9	160.5	169.7	389.8	481.6	687.9
G -3K80-4Q1/1	12.4	33.1	99.4	182.3	290.0	306.6	704.3	870.0	1242.8
G -BQFO-8F1/1	33.8	90.2	270.5	495.9	788.9	833.9	1915.8	2366.6	3380.8

MMG Part No.	Mn-Zn								
	F58 750	FB2 2000	F9Q 2300	FB3 2700	F9N 4000	F82 5000	FT6 6000	FT7 7500	FTA 10000
G -153Y-2B1/1	212	564	649	762	1129	1411	1693	2117	2822
G -1I41-2D1/1	288	769	884	1038	1538	1922	2307	2883	3845
G -1K3Y-2B1/1	291	776	893	1048	1552	1940	2328	2911	3881
G -1Q3Y-2B1/1	318	847	974	1143	1693	2117	2540	3175	4233
G -1Q41-2D1/1	326	870	1001	1175	1741	2176	2611	3264	4352
G -203Y-2B1/1	370	988	1136	1334	1976	2470	2963	3704	4939
G -2V3Y-2B1/1	529	1411	1623	1905	2822	3528	4233	5292	7056
G -2V41-2D1/1	544	1451	1668	1959	2902	3627	4352	5441	7254
G -3K7Q-4F1/1	574	1530	1760	2066	3060	3825	4590	5738	7650
G -3K7V-4F1/1	574	1530	1760	2066	3060	3825	4590	5738	7650
G -5Q4Q-2T1/1	1188	3167	3642	4275	6334	7917	9500	11876	15834
G -6Z80-4Q1/1	1213	3235	3720	4367	6469	8086	9704	12130	16173
G -757Q-4F1/1	1211	3231	3715	4361	6461	8076	9692	12115	16153
G -8K7V-4F1/1	1377	3672	4223	4957	7344	9180	11016	13770	18360
G -FKFA-8Q1/1	1942	5179	5955	6991	10357	12946	15536	19419	25893
G -1F33-1Q1/1	305.8	815.5	937.8	1100.9	1631.0	2038.7	2446.5	3058.1	4077.4
G -1V3Y-2B1/1	344.0	917.3	1054.8	1238.3	1834.5	2293.1	2751.8	3439.7	4586.3
G -3K80-4Q1/1	621.4	1657.1	1905.6	2237.0	3314.1	4142.7	4971.2	6214.0	8285.3
G -BQFO-8F1/1	1690.4	4507.8	5183.9	6085.5	9015.6	11269.4	13523.3	16904.2	22538.9

MMG/NEOSID (CANADA) LIMITED BALUN CORES



The BL style is the same as the BH with the addition of a winding slot along length "C" adjacent to both holes.



Originally designed for one specific purpose, balun cores are now used in a wide variety of applications. These range from wideband to pulse and even interference suppression.

Neosid is tooled for a wide range of balun cores. These range in size from about 1/8" to over 1", and styles from 2 hole to 6 hole.

The materials and sizes that are listed are suitable for most applications; however, if a higher frequency material is desired, any of Neosid's styles and sizes can be manufactured in our F25 or F29 materials. Please contact the factory for further information.

MMG/NEOSID (CANADA) LIMITED FERRITE BALUNS

PART NUMBER	"A" Inches	"B" Inches	"C" Inches	"D" Inches	STYLE	MATERIAL
30BF 135040	0.135	0.035	0.040	0.080	B F	F13
31BF 135040	0.135	0.035	0.040	0.080	B F	F14
32BF 135040	0.135	0.035	0.040	0.080	B F	F16
38BF 135040	0.135	0.035	0.040	0.080	B F	F19
24BF 135040	0.135	0.035	0.040	0.080	B F	F302
30BF 135090	0.135	0.035	0.090	0.080	B F	F13
31BF 135090	0.135	0.035	0.090	0.080	B F	F14
32BF 135090	0.135	0.035	0.090	0.080	B F	F16
38BF 135090	0.135	0.035	0.090	0.080	B F	F19
24BF 135090	0.135	0.035	0.090	0.080	B F	F302
30BF 135165	0.135	0.035	0.165	0.080	B F	F13
31BF 135165	0.135	0.035	0.165	0.080	B F	F14
32BF 135165	0.135	0.035	0.165	0.080	B F	F16
38BF 135165	0.135	0.035	0.165	0.080	B F	F19
24BF 135165	0.135	0.035	0.165	0.080	B F	F302
30BF 275125	0.275	0.070	0.125	0.160	B F	F13
31BF 275125	0.275	0.070	0.125	0.160	B F	F14
32BF 275125	0.275	0.070	0.125	0.160	B F	F16
38BF 275125	0.275	0.070	0.125	0.160	B F	F19
24BF 275125	0.275	0.070	0.125	0.160	B F	F302
30BF 275160	0.275	0.070	0.160	0.160	B F	F13
31BF 275160	0.275	0.070	0.160	0.160	B F	F14
32BF 275160	0.275	0.070	0.160	0.160	B F	F16
38BF 275160	0.275	0.070	0.160	0.160	B F	F19
24BF 275160	0.275	0.070	0.160	0.160	B F	F302
30BF 275250	0.275	0.070	0.250	0.160	B F	F13
31BF 275250	0.275	0.070	0.250	0.160	B F	F14
32BF 275250	0.275	0.070	0.250	0.160	B F	F16
38BF 275250	0.275	0.070	0.250	0.160	B F	F19
24BF 275250	0.275	0.070	0.250	0.160	B F	F302

MMG/NEOSID (CANADA) LIMITED FERRITE BALUNS

PART NUMBER	"A" Inches	"B" Inches	"C" Inches	"D" Inches	STYLE	MATERIAL
30BF545250	0.545	0.155	0.250	0.300	B F	F13
31BF545250	0.545	0.155	0.250	0.300	B F	F14
32BF545250	0.545	0.155	0.250	0.300	B F	F16
38BF545250	0.545	0.155	0.250	0.300	B F	F19
24BF545250	0.545	0.155	0.250	0.300	B F	F302
30BF545410	0.545	0.155	0.410	0.300	B F	F13
31BF545410	0.545	0.155	0.410	0.300	B F	F14
32BF545410	0.545	0.155	0.410	0.300	B F	F16
38BF545410	0.545	0.155	0.410	0.300	B F	F19
24BF545410	0.545	0.155	0.410	0.300	B F	F302
30BF545550	0.545	0.155	0.550	0.300	B F	F13
31BF545550	0.545	0.155	0.550	0.300	B F	F14
32BF545550	0.545	0.155	0.550	0.300	B F	F16
38BF545550	0.545	0.155	0.550	0.300	B F	F19
24BF545550	0.545	0.155	0.550	0.300	B F	F302
30BG315190	0.315	0.085	0.190	0.175	B G	F13
31BG315190	0.315	0.085	0.190	0.175	B G	F14
32BG315190	0.315	0.085	0.190	0.175	B G	F16
38BG315190	0.315	0.085	0.190	0.175	B G	F19
24BG315190	0.315	0.085	0.190	0.175	B G	F302
30BG315312	0.315	0.085	0.312	0.175	B G	F13
31BG315312	0.315	0.085	0.312	0.175	B G	F14
32BG315312	0.315	0.085	0.312	0.175	B G	F16
38BG315312	0.315	0.085	0.312	0.175	B G	F19
24BG315312	0.315	0.085	0.312	0.175	B G	F302
30BG750500	0.750	0.187	0.500	0.375	B G	F13
31BG750500	0.750	0.187	0.500	0.375	B G	F14
32BG750500	0.750	0.187	0.500	0.375	B G	F16
38BG750500	0.750	0.187	0.500	0.375	B G	F19
24BG750500	0.750	0.187	0.500	0.375	B G	F302

MMG/NEOSID (CANADA) LIMITED FERRITE BALUNS

PART NUMBER	"A" Inches	"B" Inches	"C" Inches	"D" Inches	STYLE	MATERIAL
30BG750750	0.750	0.187	0.750	0.375	B G	F13
31BG750750	0.750	0.187	0.750	0.375	B G	F14
32BG750750	0.750	0.187	0.750	0.375	B G	F16
38BG750750	0.750	0.187	0.750	0.375	B G	F19
24BG750750	0.750	0.187	0.750	0.375	B G	F302
30BG750010	0.750	0.187	1.000	0.375	B G	F13
31BG750010	0.750	0.187	1.000	0.375	B G	F14
32BG750010	0.750	0.187	1.000	0.375	B G	F16
38BG750010	0.750	0.187	1.000	0.375	B G	F19
24BG750010	0.750	0.187	1.000	0.375	B G	F302
30BG1X1500	1.125	0.290	0.500	0.560	B G	F13
31BG1X1500	1.125	0.290	0.500	0.560	B G	F14
32BG1X1500	1.125	0.290	0.500	0.560	B G	F16
38BG1X1500	1.125	0.290	0.500	0.560	B G	F19
24BG1X1500	1.125	0.290	0.500	0.560	B G	F302
30BG1X1750	1.125	0.290	0.750	0.560	B G	F13
31BG1X1750	1.125	0.290	0.750	0.560	B G	F14
32BG1X1750	1.125	0.290	0.750	0.560	B G	F16
38BG1X1750	1.125	0.290	0.750	0.560	B G	F19
24BG1X1750	1.125	0.290	0.750	0.560	B G	F302
30BG1X11X1	1.125	0.290	1.125	0.560	B G	F13
31BG1X11X1	1.125	0.290	1.125	0.560	B G	F14
32BG1X11X1	1.125	0.290	1.125	0.560	B G	F16
38BG1X11X1	1.125	0.290	1.125	0.560	B G	F19
24BG1X11X1	1.125	0.290	1.125	0.560	B G	F302
30BH245125	0.245	0.050	0.125	----	B H	F13
31BH245125	0.245	0.050	0.125	----	B H	F14
32BH245125	0.245	0.050	0.125	----	B H	F16
38BH245125	0.245	0.050	0.125	----	B H	F19
24BH245125	0.245	0.050	0.125	----	B H	F302