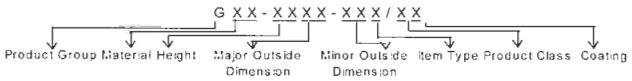
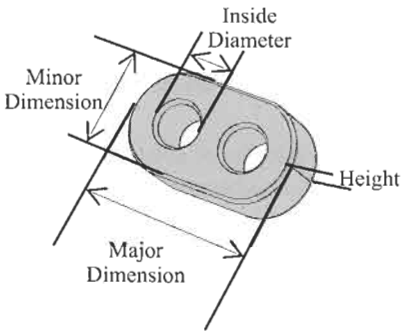
Product Group G: Balun Cores



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.

Multiaperture 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	0.040	0.138	0.081	0.034	44.5	4.0589	0.09116	3.70020
	mm	1.016	3.505	2.057	0.864				
G__-1141-2D1/1	in	0.053	0.141	0.083	0.034	32.7	4.1015	0.12548	5.14676
	mm	1.346	3.581	2.108	0.864				
G__-1K3Y-2B1/1	in	0.055	0.138	0.081	0.034	32.4	4.0589	0.12535	5.08777
	mm	1.397	3.505	2.057	0.864				
G__-1Q3Y-2B1/1	in	0.060	0.138	0.081	0.034	29.7	4.0589	0.13674	5.55030
	mm	1.524	3.505	2.057	0.864				
G__-1Q41-2D1/1	in	0.060	0.141	0.083	0.034	28.9	4.1015	0.14206	5.82652
	mm	1.524	3.581	2.108	0.864				
G__-203Y-2B1/1	in	0.070	0.138	0.081	0.034	25.4	4.0589	0.15953	6.47535
	mm	1.778	3.505	2.057	0.864				
G__-2V3Y-2B1/1	in	0.100	0.138	0.081	0.034	17.8	4.0589	0.22790	9.25050
	mm	2.540	3.505	2.057	0.864				
G__-2V41-2D1/1	in	0.100	0.141	0.083	0.034	17.3	4.1015	0.23676	9.71087
	mm	2.540	3.581	2.108	0.864				
G__-3K7Q-4F1/1	in	0.125	0.270	0.155	0.073	16.4	8.2909	0.50473	41.84635
	mm	3.175	6.858	3.937	1.854				
G__-3K7V-4F1/1	in	0.125	0.275	0.155	0.073	16.4	8.2909	0.50473	41.84635
	mm	3.175	6.985	3.937	1.854				
G__-5Q4Q-2I1/1	in	0.200	0.165	0.098	0.037	7.9	4.6202	0.58217	26.89737
	mm	5.080	4.191	2.489	0.940				
G__-6Z80-4Q1/1	in	0.244	0.280	0.165	0.073	7.8	8.5196	1.09648	93.41530
	mm	6.198	7.112	4.191	1.854				
G__-757Q-4F1/1	in	0.250	0.270	0.155	0.070	7.8	8.0970	1.04080	84.27305
	mm	6.350	6.858	3.937	1.778				
G__-8K7V-4F1/1	in	0.300	0.275	0.155	0.073	6.8	8.2909	1.21135	100.43125
	mm	7.620	6.985	3.937	1.854				
G__-FKFA-8Q1/1	in	0.545	0.535	0.305	0.170	4.9	17.9140	3.69112	661.22674
	mm	13.843	13.589	7.747	4.318				
G__-1F33-1Q1/1	in	0.050	0.108	0.060	0.022	30.8	2.7810	0.09024	2.50950
	mm	1.270	2.743	1.524	0.559				
G__-1V3Y-2B1/1	in	0.065	0.138	0.081	0.034	27.4	4.0589	0.14814	6.01282
	mm	1.651	3.505	2.057	0.864				
G__-3K80-4Q1/1	in	0.125	0.280	0.165	0.073	15.2	8.5196	0.56172	47.85620
	mm	3.175	7.112	4.191	1.854				
G__-BQF0-8F1/1	in	0.410	0.525	0.295	0.150	5.6	16.4700	2.95404	486.53085
	mm	10.414	13.335	7.493	3.810				

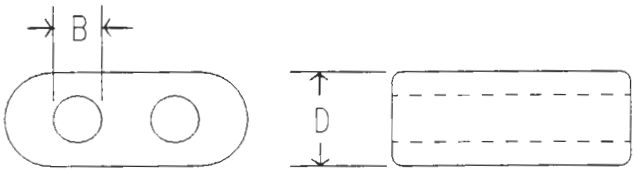


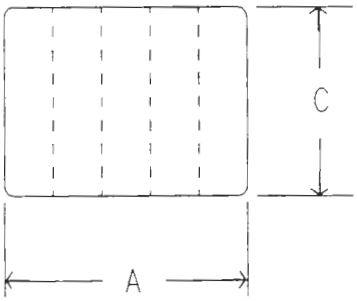
Typical A_L Values in nH/turn^2

	NI-Zn								
	F31	F21	F01	F14	F24	FA1	F52	F53	FF1
MMG Part No.	15	40	120	220	350	370	850	1050	1500
G__-153Y-2B1/1	4	11	34	62	99	104	240	296	423
G__-1141-2D1/1	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__-BQF0-8F1/1	33.8	90.2	270.5	495.9	788.9	833.9	1915.8	2366.6	3380.8

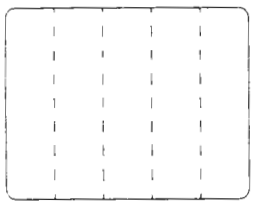
	Mn-Zn								
	F58	FB2	F9Q	FB3	F9N	F82	FT6	FT7	FTA
MMG Part No.	750	2000	2300	2700	4000	5000	6000	7500	10000
G__-153Y-2B1/1	212	564	649	762	1129	1411	1693	2117	2822
G__-1141-2D1/1	288	769	884	1038	1538	1922	2307	2883	3845
G__-1K3Y-2B1/1	291	776	893	1048	1552	1940	2328	2911	3881
G__-1Q3Y-2B1/1	318	847	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__-BQF0-8F1/1	1690.4	4507.8	5183.9	6085.5	9015.6	11269.4	13523.3	16904.2	22538.9

MMG/NEOSID (CANADA) LIMITED
BALUN CORES





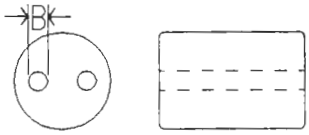
2 HOLE
STYLE BF

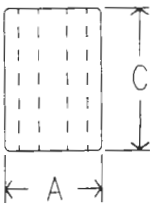


2 HOLE
STYLE BG

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 supression.

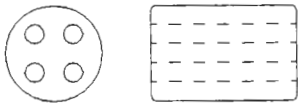
Neosid is tooled for a wide range of balun cores. These range in size from about 1/8" to over 1", and styles from 2 hole to 6 hole.



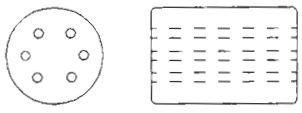


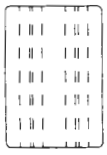
2 HOLE
STYLE BH

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



4 HOLE
STYLE BJ





6 HOLE
STYLE BK

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
30BF135040	0.135	0.035	0.040	0.080	B F	F13
31BF135040	0.135	0.035	0.040	0.080	B F	F14
32BF135040	0.135	0.035	0.040	0.080	B F	F16
38BF135040	0.135	0.035	0.040	0.080	B F	F19
24BF135040	0.135	0.035	0.040	0.080	B F	F302
30BF135090	0.135	0.035	0.090	0.080	B F	F13
31BF135090	0.135	0.035	0.090	0.080	B F	F14
32BF135090	0.135	0.035	0.090	0.080	B F	F16
38BF135090	0.135	0.035	0.090	0.080	B F	F19
24BF135090	0.135	0.035	0.090	0.080	B F	F302
30BF135165	0.135	0.035	0.165	0.080	B F	F13
31BF135165	0.135	0.035	0.165	0.080	B F	F14
32BF135165	0.135	0.035	0.165	0.080	B F	F16
38BF135165	0.135	0.035	0.165	0.080	B F	F19
24BF135165	0.135	0.035	0.165	0.080	B F	F302
30BF275125	0.275	0.070	0.125	0.160	B F	F13
31BF275125	0.275	0.070	0.125	0.160	B F	F14
32BF275125	0.275	0.070	0.125	0.160	B F	F16
38BF275125	0.275	0.070	0.125	0.160	B F	F19
24BF275125	0.275	0.070	0.125	0.160	B F	F302
30BF275160	0.275	0.070	0.160	0.160	B F	F13
31BF275160	0.275	0.070	0.160	0.160	B F	F14
32BF275160	0.275	0.070	0.160	0.160	B F	F16
38BF275160	0.275	0.070	0.160	0.160	B F	F19
24BF275160	0.275	0.070	0.160	0.160	B F	F302
30BF275250	0.275	0.070	0.250	0.160	B F	F13
31BF275250	0.275	0.070	0.250	0.160	B F	F14
32BF275250	0.275	0.070	0.250	0.160	B F	F16
38BF275250	0.275	0.070	0.250	0.160	B F	F19
24BF275250	0.275	0.070	0.250	0.160	B F	F302

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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

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