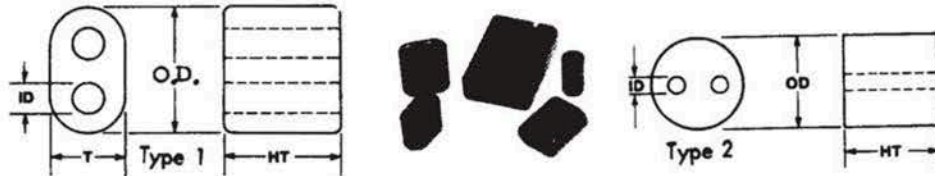


MULTI-APERTURE CORES

The two-hole multi-aperture core is commonly used for wideband transformers and impedance matching devices. The primary concern, when designing a wideband transformer, is to extend the bandwidth with a minimum of loss. The limiting factors are inductive reactance and core loss.

By winding through both holes of the binocular type two hole core, a higher inductance per turn can be obtained than would otherwise be possible with a single hole core.



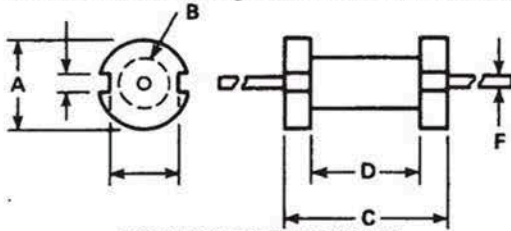
Dimensions in inches;

A_L value in mh/1000 turns

Part No.	OD	ID	Hgt	Th	Type	A_L	Part No.	OD	ID	Hgt	Th	Type	A_L
BN-43-202	.525	.150	.565	.295	1	N/A	BN-61-2302	.136	.035	.093	.080	1	60
BN-43-2302	.136	.035	.093	.080	1	N/A	BN-61-2402	.280	.070	.240	.160	1	160
BN-43-2402	.280	.070	.240	.160	1	N/A	BN-61-1702	.250	.050	.470	—	2	440
BN-43-3312	.765	.187	1.000	.375	1	N/A	BN-61-1802	.250	.050	.240	—	2	310
BN-43-7051	1.130	.250	1.130	.560	1	N/A	BN-73-202	.525	.150	.565	.295	1	
BN-61-202	.525	.150	.565	.295	1	N/A	BN-73-2402	.275	.070	.240	.160	1	

FERRITE BOBBIN CORES

Ferrite Bobbin cores provide a convenient means of winding RF chokes. Because of their open magnetic path, they can handle more current than toroids of similar effective area. To aid in the design of such chokes, we have provided tables containing inductance, wire turns, wire size and maximum current for each type of bobbin.



BOBBIN DIMENSIONS

Winding table: number of turns to completely fill bobbin

Wire Size	20	22	24	26	28	30	32	34	36
B-77-1111	9	14	23	35	56	88	164	205	400
Wire Size	20	22	24	26	28	30	32	34	36
B-77-1011	24	39	60	93	148	230	425	535	1050

A_L value in mh/1000 turns

Part Number	A	B	C	D	F	A_L	NI
Bobbin #B-77-1111	.196"	.107"	.500"	.400"	#22	17	60
Bobbin #B-77-1011	.372"	.187"	.750"	.500"	#20	39	130

BOBBIN #B-77-1111				BOBBIN #B-77-1011			
Inductance	wire turns	AL = 17 wire size	NI=60 I (max)	Inductance	wire turns	AL = 39 wire size	NI = 130 I (max)
10 μ h	24	24	2.50	25 μ h	25	20	5.20
25 μ h	38	26	1.60	50 μ h	36	22	3.60
50 μ h	38	26	1.60	100 μ h	50	24	2.60
100 μ h	77	30	0.78	250 μ h	80	26	1.60
250 μ h	121	31	0.50	500 μ h	113	27	1.10
500 μ h	171	32	0.35	1.0 mh	160	28	0.80
1.0 mh	243	34	0.25	2.5 mh	253	30	0.50
2.5 mh	383	36	0.16	5.0 mh	358	32	0.36
5.0 mh	542	37	0.11	10.0 mh	506	34	0.25
10.0 mh	762	38	0.08	25.0 mh	800	36	0.16

BALUNS & TUNING CORES

CORE CONFIGURATIONS

Slug cores	All popular sizes
Threaded cores	All popular sizes
Coil Forms	All popular sizes
Stud Cores	All popular sizes
U Cores	Call for tooling parts list

- NOTES: 1) Parts available in all materials and in different lengths.
2) Bobbins and coil forms available with or without leads.
3) Special machining for custom shapes available.