



Pot Cores

POT CORES

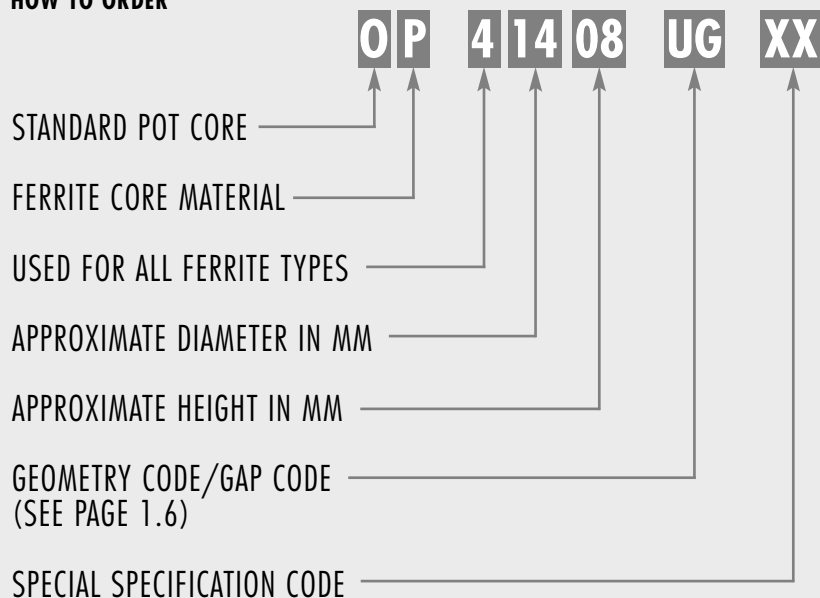
The pot core shape is a convenient means of adjusting the ferrite structure to meet the specific requirements of an application. Both high circuit Q and good temperature stability of inductance can be obtained with these cores. Pot cores, when assembled, nearly surround the wound bobbin. This self-shielded geometry isolates the winding from stray magnetic fields or effects from other surrounding circuit elements.

Both plain and printed circuit bobbins are available, as are mounting and assembly hardware.

Typical applications for pot cores include; differential inductors, power transformers, power inductors, converter and inverter transformers, filters, both broadband and narrow transformers and telecom inductors.

Magnetics produces a wide variety of sizes, which include fourteen (14) international standard sizes. Standard pot cores are ungapped, but any practical gap is also available (see page 1.8-1.11)

HOW TO ORDER

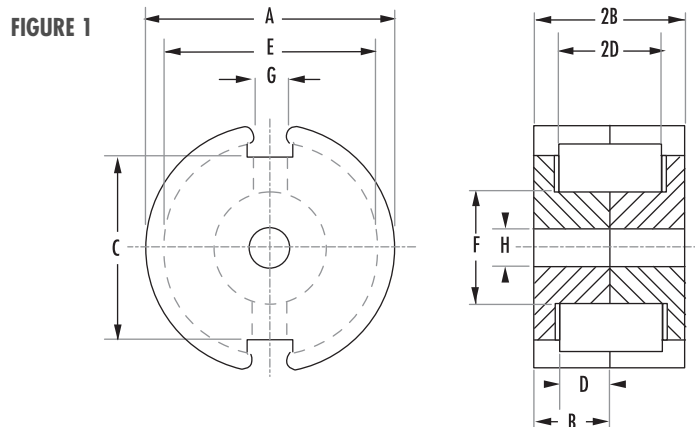


Pot Core Data (ungapped)

Any practical gap available. See pages 1.8-1.11

MECHANICAL DIMENSIONS (mm)											
PART	FIG.	A	B	2B	C	D	2D	E	F	G	H
0_40704UG	1	7.24 ± .15	2.08 ± .05	4.16 ± .1	4.72 nom	1.4 min	2.79 min	5.74 min	3 max	1.52 min	1.09 ± .05
0_40905UG	1	9.3 + 0, - .3	2.7 + 0, - .15	5.4 + 0, - .3	6.5 ± .25	1.8 + .15, - 0	3.6 + .3, - 0	7.5 + .25, - 0	3.9 + 0, - .2	2 ± .2	2.04 + .06, - 0
0_41107UG	1	11.1 ± .2	3.25 ± .05	6.5 ± .1	6.8 ± .25	2.2 + .15, - 0	4.4 + .3, - 0	9 + .4, - 0	4.7 + .2, - 0	2.2 ± .3	2.1 ± 0.1
0_41408UG	1	14.3 + 0, - .5	4.2 ± .05	8.4 ± .1	9.5 ± .3	2.8 + .2, - 0	5.6 + .4, - 0	11.6 + .4, - 0	6 + 0, - .2	2.7 + 1.2, - 0	3 + .01, - 0
0_41811UG	1	18 ± .4	5.3 ± .05	10.6 ± .1	13.4 ± .3	3.7 ± .1	7.4 ± .2	15.15 ± .25	7.45 ± .15	3.8 ± 0.6	3.1 ± .1
0_42213UG	1	22 + 0, - .8	6.7 ± .1	13.4 ± .2	15 ± .4	4.6 + .2, - 0	9.2 + .4, - 0	17.9 + .6, - 0	9.4 + 0, - .3	3.8 ± .6	4.4 + .3, - 0
0_42616UG	1	25.5 ± .5	8.05 ± .1	16.1 ± .2	18 ± .4	5.5 + .2, - 0	11 + 4, - 0	21.6 ± .4	11.3 ± .2	3.8 ± .6	5.5 ± .1
0_43019UG	1	30 ± .5	9.45 ± .05	18.9 ± .1	20.5 ± .5	6.6 ± .1	13.2 ± .2	25.4 ± .4	13.3 ± .2	4.3 ± .6	5.5 ± .1
0_43622UG	1	35.6 ± .6	10.95 ± .05	21.9 ± .1	26.2 ± .6	7.4 ± .1	14.8 ± .2	30.4 ± .5	15.9 ± .3	4.9 ± .6	5.55 ± .15
0_44229UG	1	42.4 ± .7	14.7 ± .05	29.4 ± .1	32 ± .7	10.25 ± .1	20.5 ± .2	36.3 ± .7	17.4 ± .3	5.1 ± .6	5.55 ± .15

To order, add material code to part number.



Pot Core Data (ungapped)

A_L (mH/1000T) min												
POWER MATERIALS					HIGH PERMEABILITY MATERIALS		MAGNETIC DATA					
PART	FIG.	R	P	F*	J	W	l_e (mm)	A_e (mm ²)	A_{min} (mm ²)	V_e (mm ³)	CORE WEIGHT (grams per set)	WaAc
0_40704UG	1	620	675	1,200	1,580	3,000	9.9	7.0	5.9	69	0.5	-
0_40905UG	1	760	825	1,365	2,045	4,220	12.5	10.1	8	126	1	0.003
0_41107UG	1	1,150	1,250	2,000	2,925	6,300	15.5	16.2	13.2	251	1.8	0.008
0_41408UG	1	1,540	1,680	2,800	3,805	6,300	19.8	25.1	19.8	495	3.2	0.02
0_41811UG	1	2,300	2,500	4,000	5,625	8,400	25.8	43.3	36	1,120	7.3	0.07
0_42213UG	1	3,030	3,300	4,900	6,825	11,200	31.5	63.4	50.9	2,000	13	0.18
0_42616UG	1	3,910	4,250	6,350	8,775	14,000	37.6	93.9	77.4	3,530	20	0.39
0_43019UG	1	5,010	5,450	8,100	11,325	18,968	45.2	137	116	6,190	34	0.73
0_43622UG	1	6,530	7,100	10,200	13,125	24,500	53.2	202	172	10,700	57	1.53
0_44229UG	1	6,900	7,500	12,000	15,000	28,000	68.6	265	214	18,200	104	3.69

* F material nominal $\pm 25\%$

** See page 5.6 for tuning assembly information

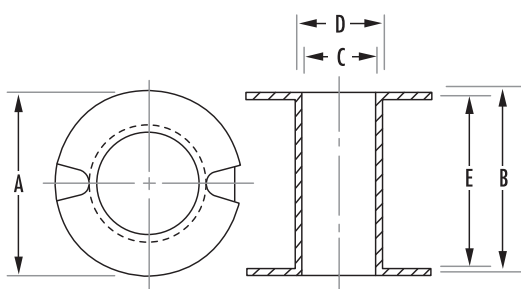
AVAILABLE HARDWARE	STANDARD BOBBIN	PRINTED CIRCUIT BOBBIN	MOUNTING CLAMP	TUNING ASSEMBLY**
0_40704UG	✓	✓	✓	✓
0_40905UG	✓	✓	✓	✓
0_41107UG	✓	✓	✓	✓
0_41408UG	✓	✓	✓	✓
0_41811UG	✓	✓	✓	✓

AVAILABLE HARDWARE	STANDARD BOBBIN	PRINTED CIRCUIT BOBBIN	MOUNTING CLAMP	TUNING ASSEMBLY**
0_42213UG	✓	✓	✓	✓
0_42616UG	✓	✓	✓	✓
0_43019UG	✓	✓	✓	✓
0_43622UG	✓	✓	✓	✓
0_44229UG	✓	✓	✓	✓

Bobbins

PART	FIG.	CORE SIZE	MECHANICAL DIMENSIONS (mm)					NOMINAL WINDING AREA PER SECTION	AVERAGE LENGTH OF TURN (mm)	MATERIAL
			A MAX	B MAX	C MIN	D MAX	E NOM	cm ²		
00B070401	1	40704	5.74	2.74	3.04	3.65	2.08	0.025	15	Glass-filled nylon
00B090501	2	40905	7.41	3.53	3.96	5.18	2.54	0.03	19	Delrin
00B090501FR	2	40905	7.41	3.53	3.96	5.18	2.54	0.03	19	Crastin S660FR
00B110701	2	41107	8.91	4.31	4.77	5.99	3.32	0.05	23	Delrin
00B140801	2	41408	11.5	5.51	6.07	7.28	4.52	0.098	29	Delrin
00B140802 2 Section	2	41408	11.53	5.51	6.07	7.28	2.03	0.044	29	Delrin
00B140802FR 2 Section	2	41408	11.53	5.51	6.07	7.28	2.03	0.044	29	Crastin S660FR

FIGURE 1

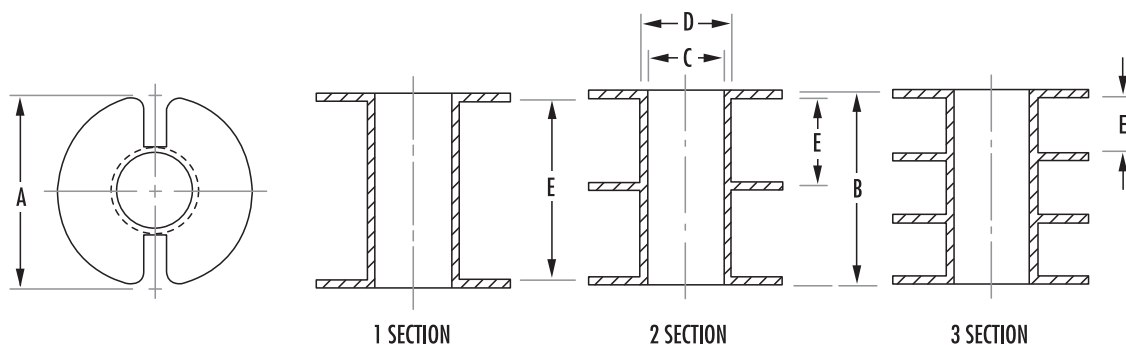


Bobbins

Pot Core Hardware

PART	FIG. CORE SIZE	MECHANICAL DIMENSIONS (mm)					NOMINAL WINDING AREA PER SECTION	AVERAGE LENGTH OF TURN (mm)	MATERIAL
		A MAX	B MAX	C MIN	D MAX	E NOM	cm ²		
00B181101	2 41811	14.9	7.13	7.67	8.89	6.09	0.17	37	Delrin
00B181101FR	2 41811	14.9	7.13	7.67	8.89	6.09	0.17	37	Crastin S660FR
00B181102 2 Section	2 41811	14.9	7.13	7.67	8.89	2.81	0.084	37	Delrin
00B181102FR	2 41811	14.9	7.13	7.67	8.89	2.81	0.084	37	Crastin S660FR
00B181103 3 Section	2 41811	14.9	7.13	7.67	8.89	1.72	0.049	37	Delrin
00B221301	2 42213	17.83	9.11	9.47	10.69	8.12	0.292	44	Delrin
00B221301FR	2 42213	17.83	9.11	9.47	10.69	8.12	0.292	44	Crastin S660FR
00B221302 2 Section	2 42213	17.83	9.11	9.47	10.69	3.83	0.138	44	Delrin
00B221302FR 2 Section	2 42213	17.83	9.11	9.47	10.69	3.83	0.138	44	Crastin S660FR
00B221303 3 Section	2 42213	17.83	9.11	9.47	10.69	2.41	0.087	44	Delrin

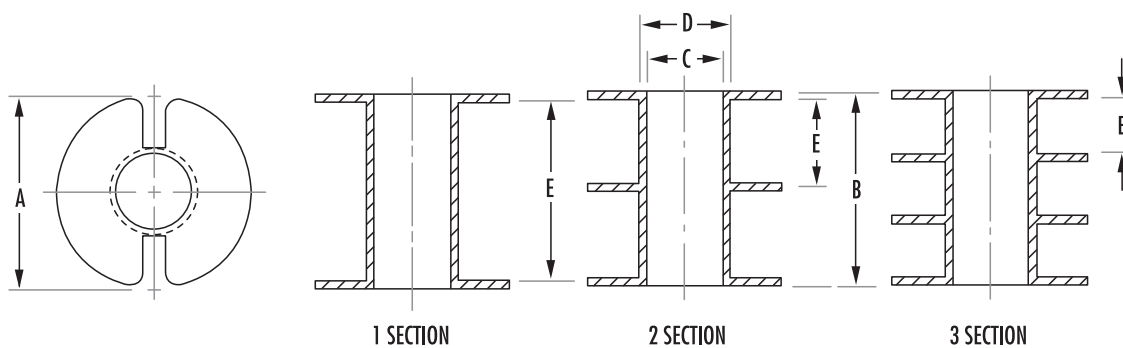
FIGURE 2



Bobbins (con't)

PART	FIG. CORE SIZE	MECHANICAL DIMENSIONS (mm)					NOMINAL WINDING AREA PER SECTION	AVERAGE LENGTH OF TURN (mm)	MATERIAL
		A MAX	B MAX	C MIN	D MAX	E NOM	cm ²		
00B261601	2 42616	21.13	10.92	11.55	12.77	9.93	0.4210	53	Delrin
00B261601FR	2 42616	21.13	10.92	11.55	12.77	9.93	0.4210	53	Crastin S660FR
00B261602 2 Section	2 42616	21.13	10.92	11.55	12.77	4.74	0.2020	53	Delrin
00B261603 3 Section	2 42616	21.13	10.92	11.55	12.77	3.02	0.1280	53	Delrin
00B261603FR 3 Section	2 42616	21.13	10.92	11.55	12.77	3.02	0.1280	53	Crastin S660FR

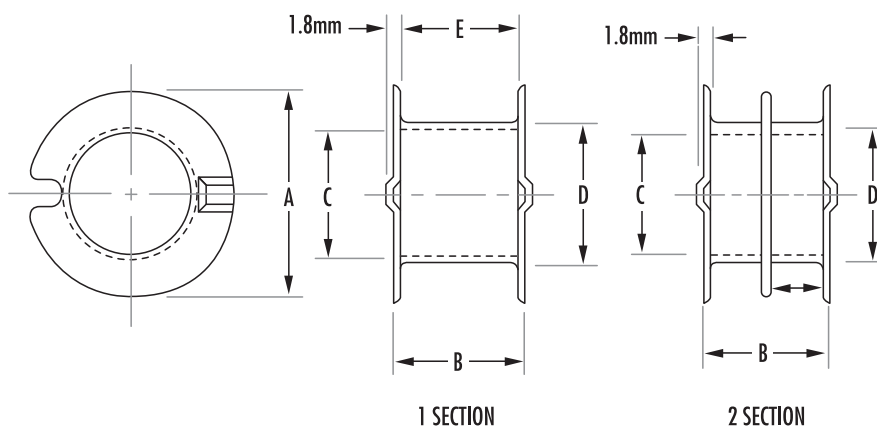
FIGURE 2



Bobbins (con't)

PART	FIG. CORE SIZE	MECHANICAL DIMENSIONS (mm)					NOMINAL WINDING AREA PER SECTION	AVERAGE LENGTH OF TURN (mm)	MATERIAL
		A MAX	B MAX	C MIN	D MAX	E NOM	cm ²		
00B301901	2 43019	24.91	12.92	13.56	15.03	11.68	0.54	62	Delrin
00B301902 2 Section	2 43019	24.91	12.92	13.56	15.03	5.56	0.25	62	Delrin
00B301903 3 Section	2 43019	24.91	12.92	13.56	15.03	3.5	0.15	62	Delrin
00B362201	2 43622	29.76	14.47	16.23	18.05	12.97	0.75	74	Delrin
00B362202 2 Section	2 43622	29.76	14.47	16.23	18.05	6.14	0.35	74	Delrin
00B362203 3 Section	2 43622	29.76	14.47	16.23	18.05	3.86	0.22	74	Delrin
00B422901	3 44229	35.4	20.01	17.98	19.71	17.8	1.39	86	Delrin
00B422902 2 Section	33 44229	35.4	20.01	17.98	19.71	8.4	0.63	86	Delrin

FIGURE 3



Printed Circuit Bobbins

MECHANICAL DIMENSIONS (mm)											
PART	FIG.	CORE SIZE	A MAX	B MAX	C MAX	D NOM	E MAX	F MAX	G NOM	X ₁ NOM	X ₂ NOM
PCB140811	1A	41408	11.5	7.11	5.41	4.44	18.99	5.89	16.2	4.74	-
PCB140821	1A	41408	11.5	7.11	5.41	4.44	18.99	5.89	16.2	-	7.13
PCB140812 2 Section	1B	41408	11.5	7.11	5.41	2.03	18.99	5.89	16.2	4.74	-
PCB140822 2 Section	1B	41408	11.5	7.11	5.41	2.03	18.99	5.89	16.2	-	7.13
PCB1408S1	2A	41408	11.5	7.11	5.41	4.44	18.99	10.66	16.2	-	7.13
PCB181111	2A	41811	14.8	8.81	7.03	6.04	23.79	10.21	21.53	4.74	-
PCB181121	2A	41811	14.8	8.81	7.03	6.04	23.79	10.21	21.53	-	7.13
PCB181112 2 Section	2B	41811	14.8	8.81	7.03	2.79	23.79	10.21	21.53	4.74	-
PCB181122 2 Section	2B	41811	14.8	8.81	7.03	2.79	23.79	10.21	21.53	-	7.13
PCB221311	2A	42213	17.8	10.69	8.99	7.79	27.2	10.21	25.14	4.74	-
PCB221321	2A	42213	17.8	10.69	8.99	7.79	27.2	10.21	25.14	-	7.13
PCB221312 2 Section	2B	42213	17.8	10.69	8.99	3.68	27.2	10.21	25.14	4.74	-

FIGURE 1

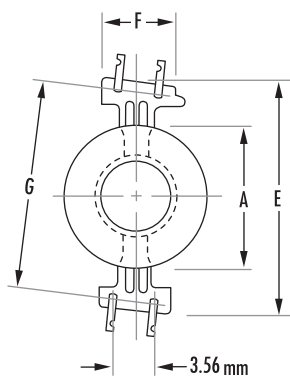


FIGURE 2

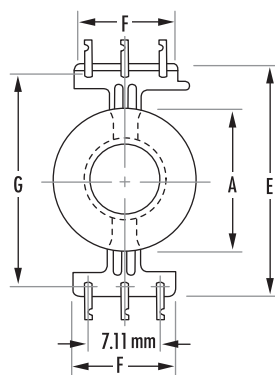


FIGURE A

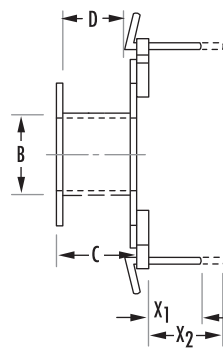
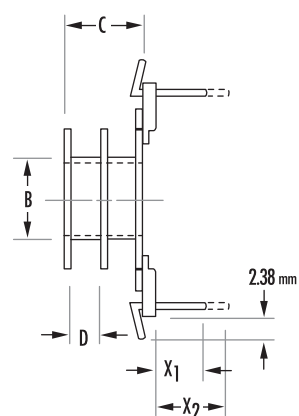


FIGURE B



Printed Circuit Bobbins

PART	FIG.	CORE SIZE	MECHANICAL DIMENSIONS (mm)		NOMINAL WINDING AREA PER SECTION	AVERAGE LENGTH OF TURN (mm)	BOBBIN MATERIAL	PIN MATERIAL
			Y ₁ NOM	Y ₂ NOM	cm ²			
PCB140811	1A	41408	1.54	3.93	0.084	29	Glass-filled nylon	Tin coated brass
PCB140821	1A	41408	1.54	3.93	0.084	29	Glass-filled nylon	Tin coated brass
PCB140812	1A	41408	1.54	3.93	0.039	29	Glass-filled nylon	Tin coated brass
2 Section								
PCB140822	1A	41408	1.54	3.93	0.039	29	Glass-filled nylon	Tin coated brass
2 Section								
PCB1408S1	2A	41408	1.54	3.93	0.084	29	Glass-filled nylon	Tin coated brass
PCB181111	2B	41811	1.44	3.83	0.151	37	Glass-filled nylon	Tin coated brass
PCB181121	2B	41811	1.44	3.83	0.151	37	Glass-filled nylon	Tin coated brass
PCB181112	2B	41811	1.44	3.83	0.064	37	Glass-filled nylon	Tin coated brass
2 Section								
PCB181122	2B	41811	1.44	3.83	0.064	37	Glass-filled nylon	Tin coated brass
2 Section								
PCB221311	2B	42213	0.58	2.97	0.28	44	Glass-filled nylon	Tin coated brass
PCB221321	2B	42213	0.58	2.97	0.28	44	Glass-filled nylon	Tin coated brass
PCB221312	2B	42213	0.58	2.97	0.13	44	Glass-filled nylon	Tin coated brass
2 Section								

NOTES: If short pin (X₁) is desired, part number is -11 or -12. If long pin (X₂) is desired, part number is -21 or -22. Y-Pin length available under board for soldering, using spring clip mounting (on 1.59mm board).

FIGURE C

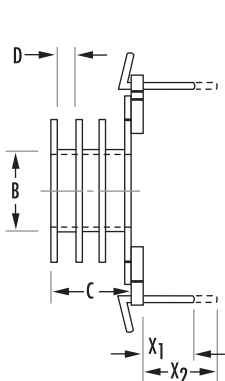
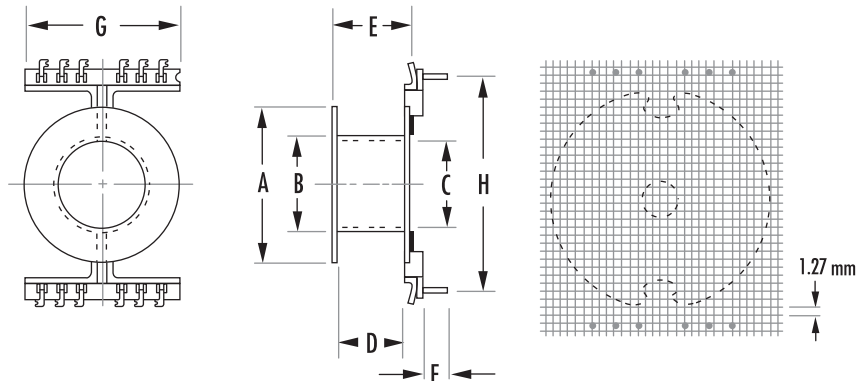


FIGURE 3



Printed Circuit Bobbins (con't)

MECHANICAL DIMENSIONS (mm)												
PART	FIG.	CORE SIZE	A MAX	B MAX	C MAX	D NOM	E MAX	F MAX	G NOM	H	X ₁ NOM	X ₂ NOM
PCB221322 2 Section	2B	42213	17.8	10.69	8.99	3.68	27.2	10.21	25.14	-	-	7.13
PCB221313 3 Section	2C	42213	17.8	10.69	8.99	2.31	27.2	10.21	25.14	-	4.74	-
PCB221323 3 Section	2C	42213	17.8	10.69	8.99	2.31	27.2	10.21	25.14	-	-	7.13
PCB261611	2A	42616	20.9	12.8	10.79	9.6	30.68	10.21	28.72	-	4.74	-
PCB261621	2A	42616	20.9	12.8	10.79	9.6	30.68	10.21	28.72	-	-	7.13
PCB261612 2 Section	2B	42616	20.9	12.8	10.79	4.57	30.68	10.21	28.72	-	4.74	-
PCB261622 2 Section	2B	42616	20.9	12.8	10.79	4.57	30.68	10.21	28.72	-	-	7.13
PCB261613 3 Section	2C	42616	20.9	12.8	10.79	2.89	30.68	10.21	28.72	-	4.74	-
PCB261623 3 Section	2C	42616	20.9	12.8	10.79	2.89	30.68	10.21	28.72	-	-	7.13
PCB301911	2A	43019	24.94	14.88	12.87	11.68	38.15	10.21	35.91	-	4.74	-
PCB301921	2A	43019	24.94	14.88	12.87	11.68	38.15	10.21	35.91	-	-	7.13
PCB362211	3	43622	29.84	18.03	16.17	12.85	14.47	5.58	29.21	40.64	-	-

FIGURE 2

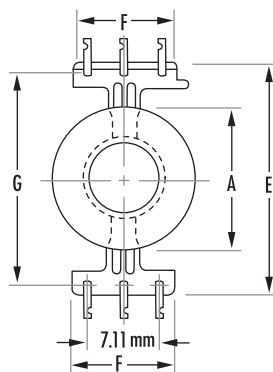


FIGURE A

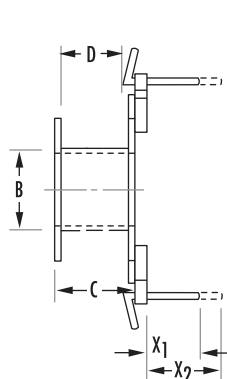


FIGURE B

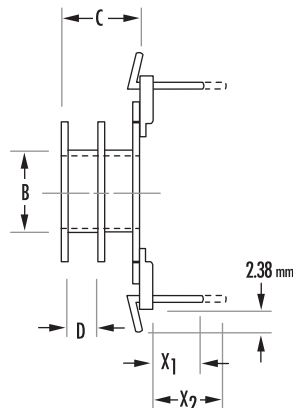
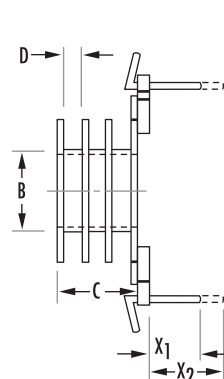


FIGURE C

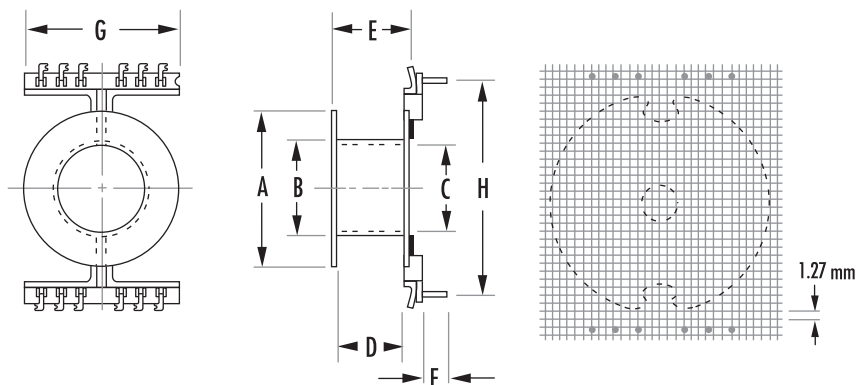


Printed Circuit Bobbins (con't)

PART	FIG.	CORE SIZE	MECHANICAL DIMENSIONS (mm)		NOMINAL WINDING AREA PER SECTION cm ²	AVERAGE LENGTH OF TURN (mm)	BOBBIN MATERIAL	PIN MATERIAL
			Y ₁ NOM	Y ₂ NOM				
PCB221322 2 Section	2B	42213	0.58	2.97	0.13	44	Glass-filled nylon	Tin coated brass
PCB221313 3 Section	2B	42213	0.58	2.97	0.08	44	Glass-filled nylon	Tin coated brass
PCB221323 3 Section	2B	42213	0.58	2.97	0.08	44	Glass-filled nylon	Tin coated brass
PCB261611	2B	42616	1.06	3.45	0.39	53	Glass-filled nylon	Tin coated brass
PCB261621	2B	42616	1.06	3.45	0.39	53	Glass-filled nylon	Tin coated brass
PCB261612 2 Section	2B	42616	1.06	3.45	0.19	53	Glass-filled nylon	Tin coated brass
PCB261622 2 Section	2B	42616	1.06	3.45	0.19	53	Glass-filled nylon	Tin coated brass
PCB261613 3 Section	2B	42616	1.06	3.45	0.12	53	Glass-filled nylon	Tin coated brass
PCB261623 3 Section	2B	42616	1.06	3.45	0.12	53	Glass-filled nylon	Tin coated brass
PCB301911	2A	43019	0.43	2.81	0.58	60	Glass-filled nylon	Tin coated brass
PCB301921 2 Section	2B	43019	0.43	2.81	0.58	60	Glass-filled nylon	Tin coated brass
PCB362211	3	43622	-	-	0.755	74	Glass-filled nylon Phosphor Bronze	Tin coated brass

NOTES: If short pin (X₁) is desired, part number is -11 or -12. If long pin (X₂) is desired, part number is -21 or -22. Y-Pin length available under board for soldering, using spring clip mounting (on 1.59mm board).

FIGURE 3



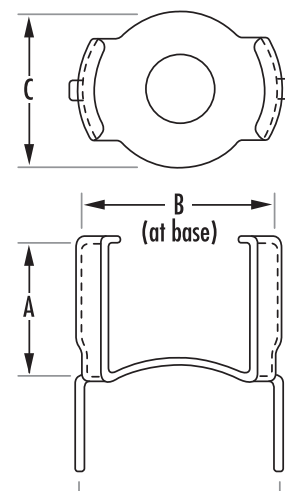
Mounting Clamps

			MECHANICAL DIMENSIONS (mm)						MATERIAL MATERIAL THICKNESS MACHINE SCREW IMPRESSIONS			WASHER**	WASHER DIMENSIONS WASHER THICKNESS		
PART	FIG.	CORE SIZE	A NOM	B NOM	C NOM	D ± .5*	F NOM	TAB DIMENSIONS							
								LENGTH	WIDTH						
00C090511	1	40905	5.68	9.49	8	10	-	4.39	1.01	Phosphor Bronze	.23	-	-	-	
00C110711	1	41107	6.98	11.48	9.19	12.49	-	5	1.19	Phosphor Bronze	.25	-	-	-	
00C140811	2	41408	9.65	14.47	13.2	13.2	-	3.96	2.15	Spring Steel	.25	-	00W140815	13.7 ± .2	.25
00C181111	3	41811	11.68	18.54	16.76	16.51	-	3.96	2.03	Spring Steel	.50	-	00W181118	17.8 ± .2	.50
00C221314	4	42213	14.85	22.25	20.82	27.94	33.02	-	-	Spring Steel	.36	#4-40	00W221324	.84 ± .2	.50
0PC221314	5	42213	14.85	22.25	20.82	21.48	3.58	-	-	Spring Steel	.36		00W221324	21.3 ± .2	.50
00C261614	4	42616	16.63	26.28	21.08	32.81	38.4	-	-	Spring Steel	.36	#4-40	-	-	-
0PC261614	7	42616	16.63	26.28	21.08	24.63	5.08	-	-	Spring Steel	.36	#4-40	-	-	-
00C301917	4	43019	20.32	30.73	28.57	38.6	44.19	-	-	Spring Steel	.43	#6-32	-	-	-
00C362217	6	43622	23.24	36.32	21.59	44.45	50.03	-	-	Spring Steel	-	#6-32	-	-	-
00C422917	6	44229	56.38	50.8	43.18	25.4	6.6	-	-	Spring Steel	-	#6-32	-	-	-

* The C090511, C110711 and C140811 have a D dimension tolerance of ± .254mm

** Mounting Clamps are made to allow for tuning adjusters. If these adjusters are not used a polypropylene washer must be inserted to take up extra space. The part number and dimension of available washers are detailed above.

FIGURE 1



Mounting Clamps

FIGURE 2

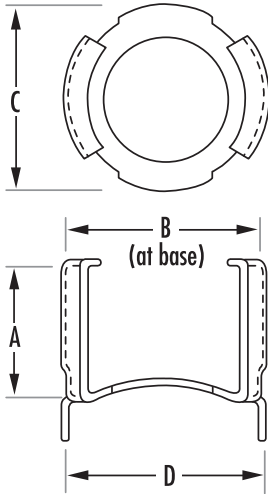


FIGURE 3

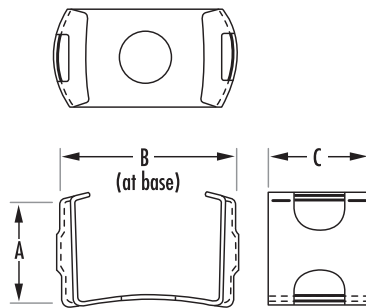


FIGURE 4

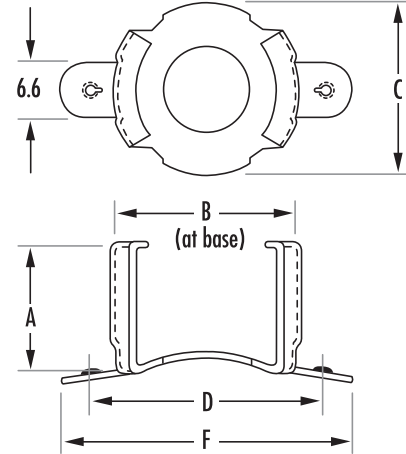


FIGURE 5

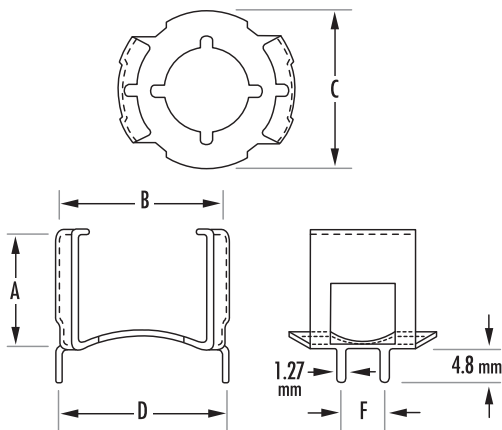


FIGURE 6

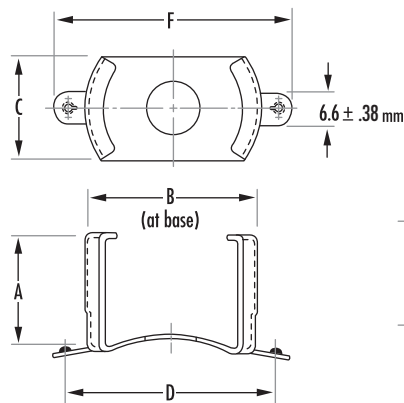
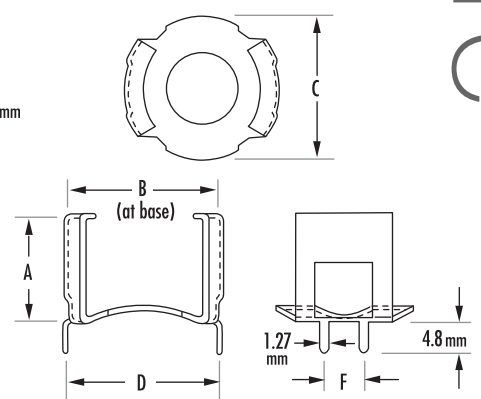


FIGURE 7



Notes



RS/DS Cores

RS/DS CORES

Slab cores are modified pot cores with the sides removed. The slabs can be paired with one round half of a standard pot core (RS combination) or two slabs can be paired together for a double slab (DS combination).

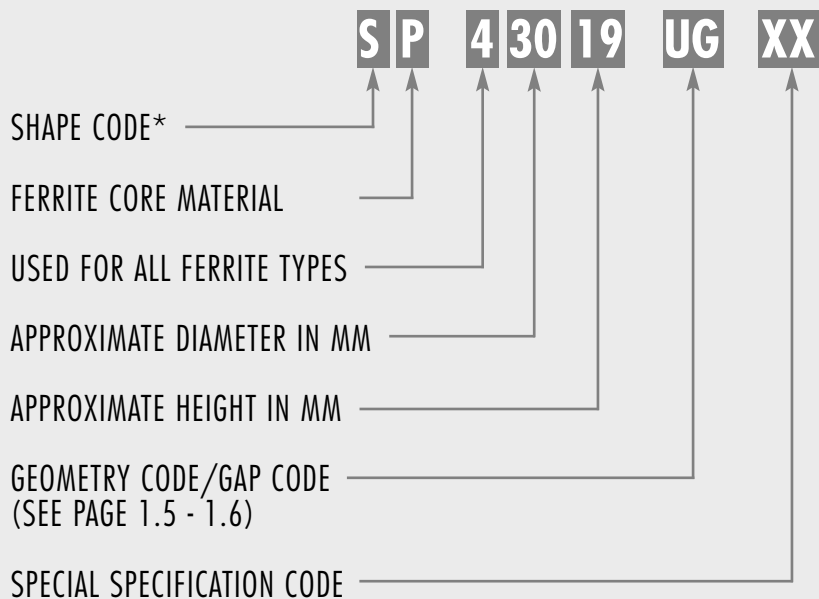
Available in seven sizes, the RS geometry offers all the advantages of pot cores for filter applications, plus many additional features for power applications.

DS cores, available in six sizes, accommodate large size wire and assist in removing heat from the assembly.

Both plain and printed circuit bobbins are available for both types of cores.

Typical applications for RS/DS combinations include; low and medium power transformers, switched-mode power supplies, and converter and inverter transformers.

HOW TO ORDER

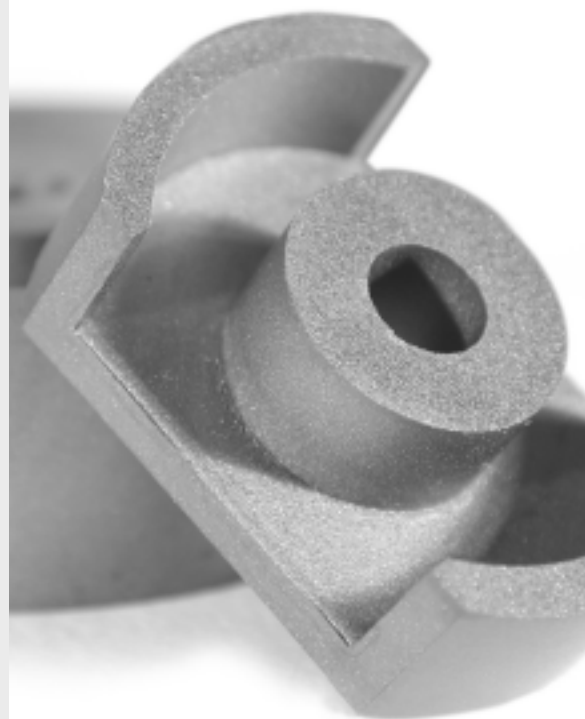


*SHAPE CODES

D — DS Core with solid centerpost

H — DS Core with center hole

S — RS Core

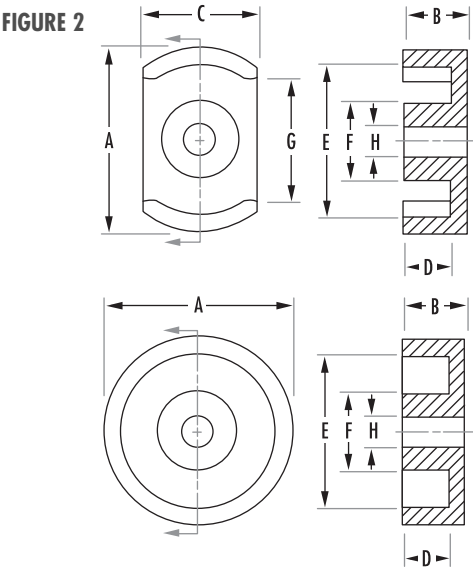
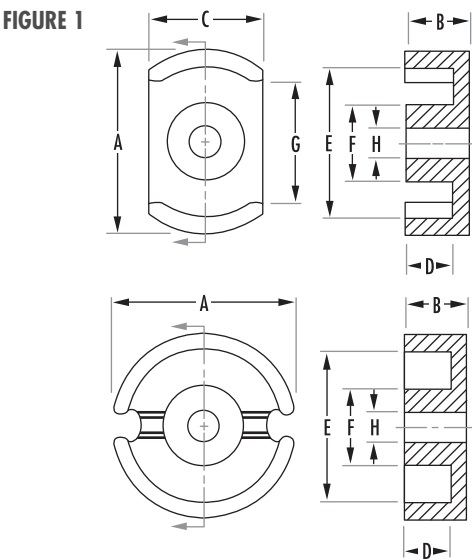


RS/DS Core Data (ungapped)

Any practical gap available. See page 1.8 - 1.11

MECHANICAL DIMENSIONS (mm)						
PART	FIG.	COMBINATION	A	B	2B	C
H_41408UG	1	DS with center hole	14 ± .25	4.24 + .0, -.13	8.48 + .0, -.28	9.4 ± .15
S_41408UG	1	RS	14 ± .25	4.24 + .0, -.13	8.48 + .0, -.28	9.4 ± .15
D_42311UG	3	DS	22.86 ± .46	5.54 ± .13	11.08 ± .26	15.24 ± .25
H_42311UG	4	DS with center hole	22.86 ± .46	5.54 ± .13	11.08 ± .26	15.24 ± .25
S_42311UG	2	RS	22.9 ± .45	5.5 ± .13	11 ± .25	15.2 ± .25
D_42318UG	3	DS	22.86 ± .46	9 ± .18	18 ± .36	15.24 ± .25
H_42318UG	4	DS with center hole	22.86 ± .46	9 ± .18	18 ± .36	15.24 ± .25
S_42318UG	2	RS	22.9 ± .45	9 ± .18	18.0 ± .35	15.25 ± .25

To order, add material code to part number.



RS/DS Core Data (ungapped)

MECHANICAL DIMENSIONS (mm)							
PART	FIG.	D	2D	E	F	G	H
H_41408UG	1	2.8 min	5.58 min	11.6 min	5.99 max	7.6 min	3.1 ± .08
S_41408UG	1	2.8	5.58	11.6	5.99	7.6	3.1 ± .08
D_42311UG	3	3.63 min	7.26 min	17.93 min	9.9 max	13.21 min	-
H_42311UG	4	3.63 min	7.26 min	17.93 min	9.9 max	13.21 min	5.1 ± .1
S_42311UG	2	3.75 ± .13	7.5 ± .25	18.3 ± .35	9.7 ± .2	13.2	5.1 ± .1
D_42318UG	3	6.93 min	13.86 min	17.93 min	9.9 max	13.2 min	-
H_42318UG	4	6.93 min	13.86 min	17.93 min	9.9 max	13.2 min	5.08 ± .1
S_42318UG	2	7.2 ± .18	14.4 ± .35	18.3 ± .35	9.7 ± .2	13.2	5.1 ± .1

FIGURE 3

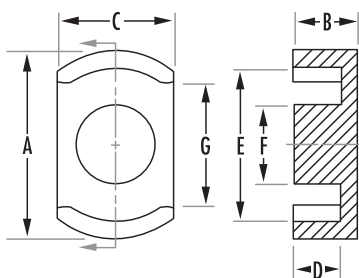
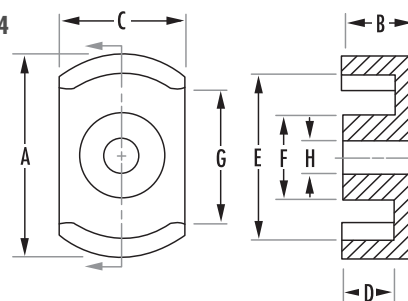


FIGURE 4



RS/DS Core Data (ungapped)

Any practical gap available. See page 1.8 - 1.11

MECHANICAL DIMENSIONS (mm)					
PART	FIG.	COMBINATION	A	B	2B
D_42616UG	3	DS	25.5 ± .51	8.05 ± .1	16.1 ± .2
H_42616UG	4	DS with center hole	25.5 ± .51	8.05 ± .1	16.1 ± .2
S_42616UG	1	RS	25.5 ± .51	8.05 ± .1	16.1 ± .2
D_43019UG	3	DS	30 ± .51	9.4 ± .1	18.8 ± .2
H_43019UG	4	DS with center hole	30 ± .51	9.4 ± .1	18.8 ± .2
S_43019UG	1	RS	30 ± .51	9.4 ± .1	18.8 ± .2
			C		
			17.09 nom		
			17.09 nom		
			17.09 nom		
			20.32 ± .25		
			20.32 ± .25		
			20.32 ± .25		

To order, add material code to part number.

FIGURE 1

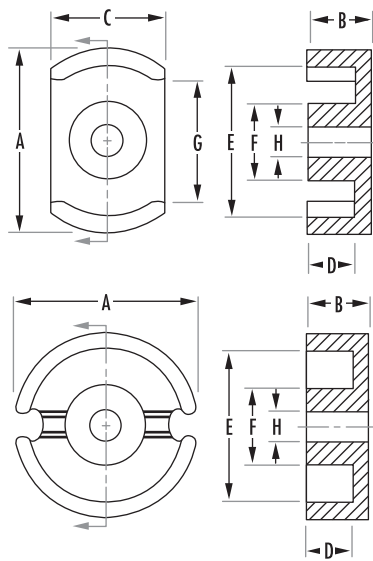
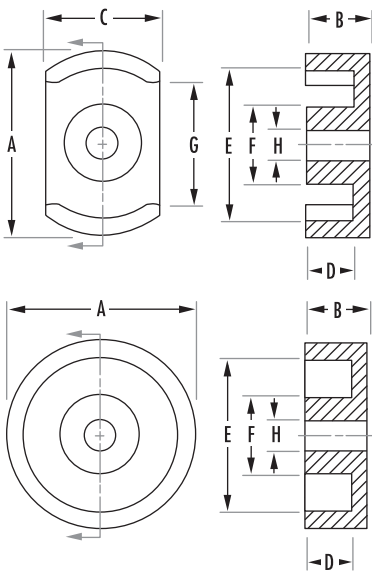


FIGURE 2



RS/DS

Core Data (ungapped)

RS/DS Cores

MECHANICAL DIMENSIONS (mm)							
PART	FIG.	D	2D	E	F	G	H
D_42616UG	3	5.51 min	11.02 min	21.21 min	11.48 max	15.5 min	-
H_42616UG	4	5.51 min	11.02 min	21.21 min	11.48 max	15.5 min	5.56 ± .1
S_42616UG	1	5.51 min	11.02 min	21.21 min	11.48 max	15.5 min	5.56 ± .1
D_43019UG	3	6.5 min	13 min	25 min	13.51 max	15.49 min	-
H_43019UG	4	6.5 min	13 min	25 min	13.51 max	15.49 min	5.56 ± .1
S_43019UG	1	6.5 min	13 min	25 min	13.51 max	15.49 min	-

FIGURE 3

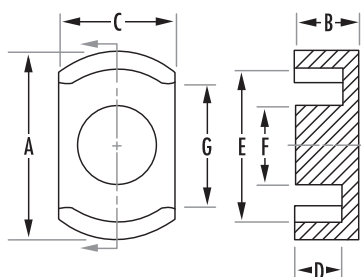
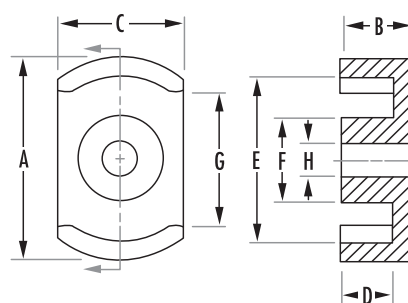


FIGURE 4



RS/DS

Core Data (ungapped)

Any practical gap available. See page 1.8 - 1.11

A_L (mH/1000T) min

		POWER MATERIALS			HIGH PERMEABILITY MATERIALS	
PART	COMBINATION	R	P	F*	J	W
H_41408UG	DS with center hole	1,150	1,250	1,990	3,080	4,930
S_41408UG	RS	1,320	1,435	2,274	3,375	5,350
D_42311UG	DS	2,580	2,810	4,460	6,300	11,245
H_42311UG	DS with center hole	2,400	2,595	4,170	5,890	9,815
S_42311UG	RS	2,950	3,210	5,200	6,300	11,250
D_42318UG	DS	2,180	2,370	3,800	4,760	7,000
H_42318UG	DS with center hole	1,950	2,115	3,350	4,000	7,000
S_42318UG	RS	2,300	2,500	4,000	4,800	8,400
D_42616UG	DS	2,870	3,120	5,000	6,070	9,100
H_42616UG	DS with center hole	-	2,880	4,600	6,080	9,100
S_42616UG	RS	3,270	3,550	5,300	6,700	11,000
D_43019UG	DS	3,330	3,620	5,800	7,120	10,500
H_43019UG	DS with center hole	3,170	3,450	5,525	7,130	10,500
S_43019UG	RS	4,150	4,520	6,700	8,360	13,000

To order, add material code to part number.

* F material nominal $\pm 25\%$

RS/DS

Core Data (ungapped)

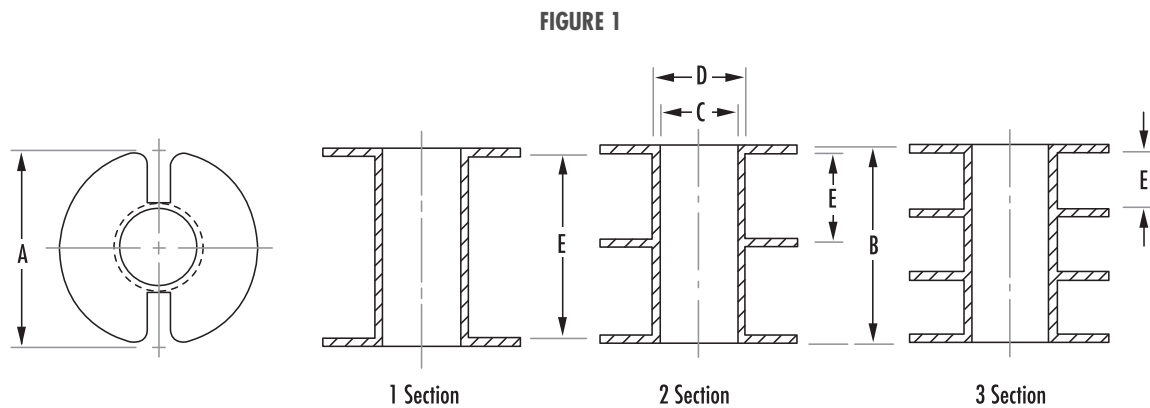
MAGNETIC DATA							STANDARD BOBBIN	PRINTED CIRCUIT BOBBIN	MOUNTING CLAMP
PART	l_e (mm)	A_e (mm ²)	A_{min} (mm ²)	V_e (mm ³)	CORE WEIGHT (grams per set)	W_{aAc}	AVAILABLE HARDWARE		
H_41408UG	20.6	21	19.2	433	-	-			
S_41408UG	20.2	23	19.2	460	2.8			✓	✓
D_42311UG	26.8	51.2	37.8	1,370	10	0.08		✓	
H_42311UG	27	48.2	37.8	1,300	-	-		✓	
S_42311UG	28.6	61	53.6	1,740	11.65	0.09		✓	
D_42318UG	39.9	58	40.7	2,310	13	0.21		✓	
H_42318UG	40.1	53.4	40.7	2,130	-	-		✓	
S_42318UG	41.6	62.2	53.6	2,590	17.4	0.22		✓	
D_42616UG	38.9	77	62.7	3,000	15	0.28	✓	✓	
H_42616UG	39	72.1	62.7	2,810	-	-			
S_42616UG	38.3	82.6	62.7	3,180	20	0.39			
D_43019UG	46.2	117	96	5,410	22	0.6	✓	✓	
H_43019UG	46.1	111	96	5,110	-	-	✓	✓	
S_43019UG	45.6	123	96	5,610	30.95	0.63		✓	

RS/DS Cores

Bobbins

PART	CORE SIZE	FIG.	MECHANICAL DIMENSIONS (mm)					NOMINAL WINDING AREA PER SECTION	AVERAGE LENGTH OF TURN (mm)	MATERIAL
			A MAX	B MAX	C MIN	D MIN	E NOM	cm ²		
00B261601	42616	1	21.13	10.92	11.55	12.77	9.93	0.421	53	Delrin
00B261601FR 2 Section	42616	1	21.13	10.92	11.55	12.77	9.93	0.421	53	Crastin S660FR
00B261602 3 Section	42616	1	21.13	10.92	11.55	12.77	4.74	0.202	53	Delrin
00B261603 3 Section	42616	1	21.13	10.92	11.55	12.77	3.02	0.128	53	Delrin
00B261603FR 3 Section	42616	1	21.13	10.92	11.55	12.77	3.02	0.128	53	Crastin S660FR
00B301901	43019	1	24.91	12.92	13.56	15.03	11.68	0.542	62	Delrin
00B301902 2 Section	43019	1	24.91	12.92	13.56	15.03	5.56	0.254	62	Delrin
00B301903 3 Section	43019	1	24.91	12.92	13.56	15.03	3.5	0.159	62	Delrin

Bobbins



Printed Circuit Bobbins

MECHANICAL DIMENSIONS (mm)										
PART	CORE SIZE	FIG.	A MAX	B MAX	C MAX	D MIN	E NOM	F MAX	G MAX	H NOM
PCB4140861	41408	1	12.77 ref	11.53	7.29	6.07	4.06	16.58 ref	5.48	4.77
PCB2311T1	42311	2	19.81	17.78	11.43	10.03	5.15	23.24	6.85	5.58
PCB2318T1	42318	2	23.11	17.78	11.4	10.03	11.88	22.86	13.66	5.53
PCB2616TA	42616	3	25.52	28.19	12.87	11.55	8.89	21.13	10.92	5.58
PCB3019T1	43019	2	28.19	24.76	14.93	13.56	10.74	30.09	12.77	4.77

FIGURE 1

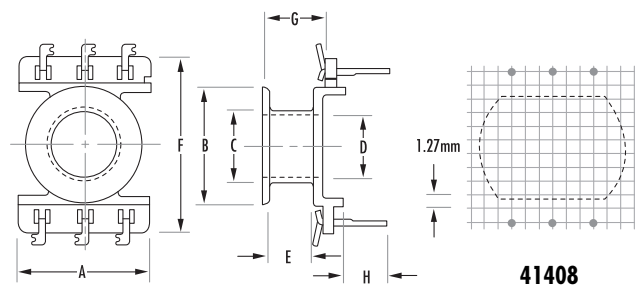
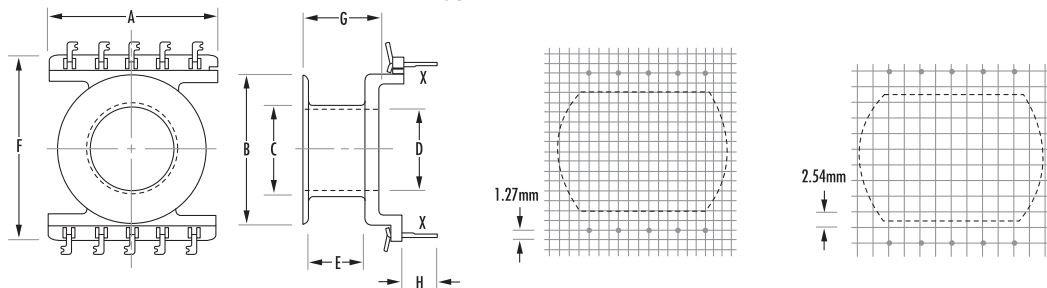


FIGURE 2



42311 & 42318

43019

PCB2311T1 and PCB2318T1 have no standoff at X

Printed Circuit Bobbins

	NOMINAL WINDING AREA PER SECTION cm ²	AVERAGE LENGTH OF TURN (mm)	BOBBIN MATERIAL	PIN MATERIAL	PIN DIMENSIONS (mm)	BOARD CLEARANCE (mm)*		
						Length	Width	Height
PCB4140861	0.086	29	Glass-filled nylon	Tin coated Phosphor bronze	1.06 x .381	14.35	21.59	9.52
PCB2311T1	0.159	44	Glass-filled nylon	Tin coated Phosphor bronze	1.06 x .381	23.5	26.16	11.43
PCB2318T1	0.368	44	Glass-filled Nylon	Tin coated Phosphor bronze	1.06 x .381	23.5	26.16	18.7
PCB2616TA	0.368	53	Rynite FR530	Tin-lead plated brass	1.14 x .381	26.1	38.1	18.8
PCB3019T1	0.514	63	Glass-filled nylon	Tin coated Phosphor bronze	1.06 x .381	30.8	33.8	19.7

*reference figure 4 for board clearance

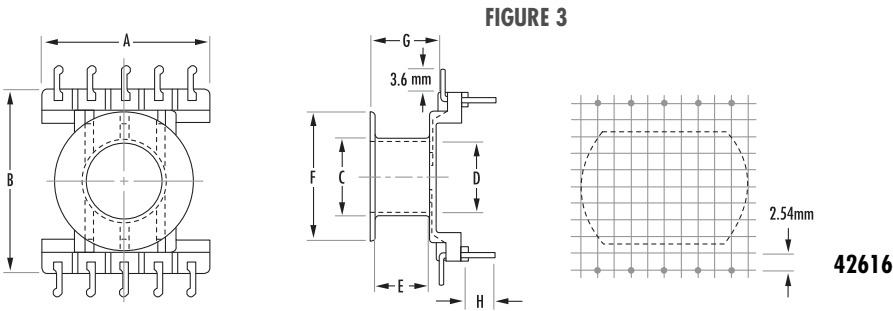


FIGURE 4

