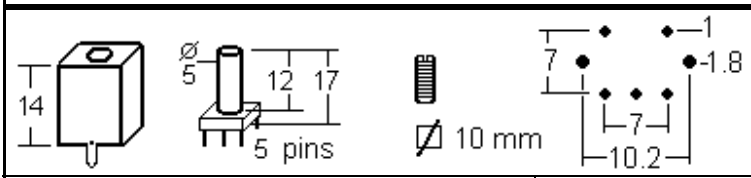
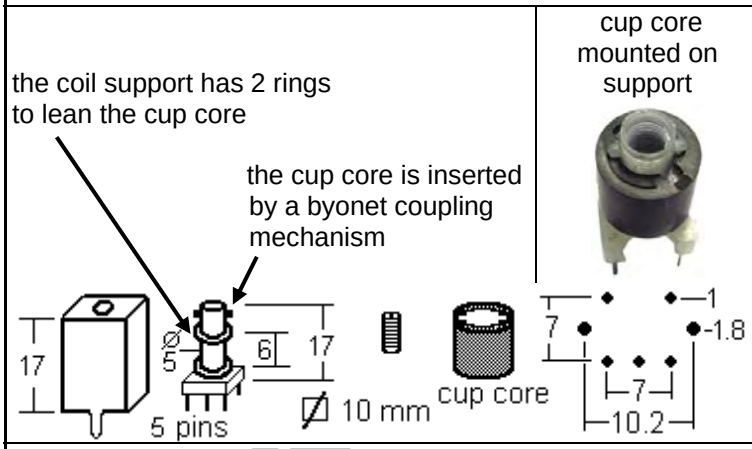
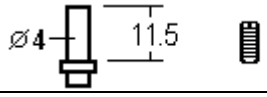
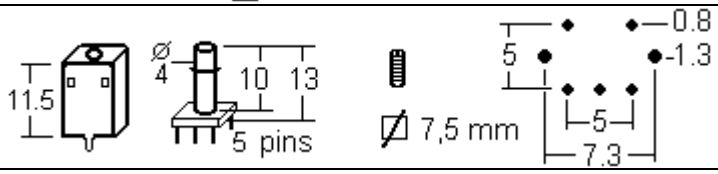
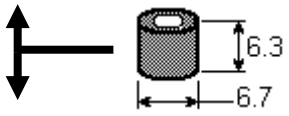
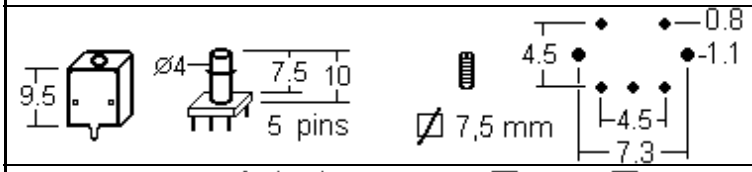
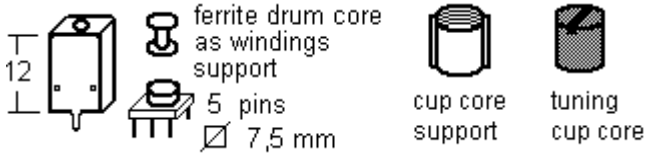
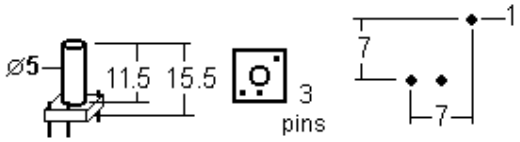
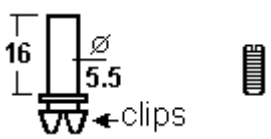
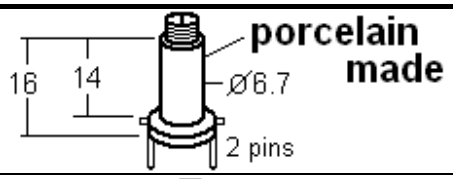
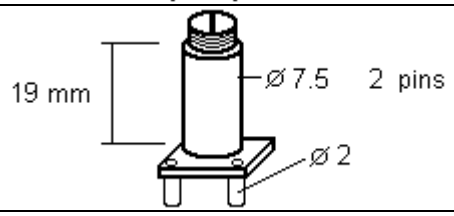
KITS AND COIL ASSEMBLIES

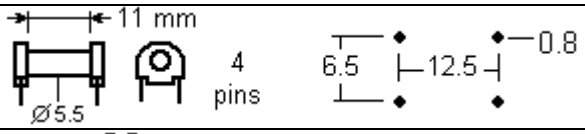
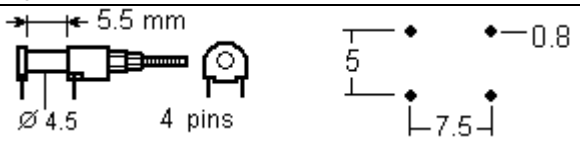
These coil assemblies are used for the construction of RF coils. In the pictures are shown all the parts included in a single kit. All coil assemblies include the tuning core (usually already provided, or provided separately).

Composition and footprint	description	cod.	price € each 1 - 10+ pcs
	shield: 10 mm support: 5 pins 10 mm with ferrite core	**SBK-10F**	1,05 - 0,95 0,85 / 100 pcs
	shield: 10 mm support: 5 pins 10 mm with ferrite core the cup core is used to improve Q , inductance and shielding. The winding is made within the 2 rings	**SBK-10SCH**	1,30 - 1,15 1,05 / 100 pcs
	support: Ø 4 mm without pins with ferrite core	**SBK-01N**	0,40 - 0,35
	shield: 7.5 mm support: 5 pins 7.5 mm with ferrite core	**SBK-71S**	1,05 - 0,96 0,88 / 100 pcs
	ferrite cup suitable for SBK-71S or 71K to improve shielding and inductance	**SBK-CF1**	0,25 - 0,20 0,15 / 100 pcs
	shield: 7.5 mm support: 5 pins 7.5 mm with ferrite core	**SBK-71K**	1,05 - 0,95 0,85 / 100 pcs
	for frequencies < 5 MHz or for high inductance values	**SBK-7A1**	1,70 finishing
	Support: 3 pins 10 mm with core without shield	**SBK-02N**	0,40 - 0,35
	support: Ø 5.5 mm without pins and shield, with core , it has to be fitted into the p.c.b. by pushing the clips	**SBK-03N**	0,40 - 0,35
	support: 4 pins with upper ring to keep many windings, with core without shield	**SBK-05N**	0,45 - 0,40

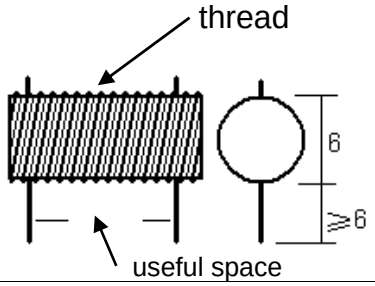
continue

Composition and footprint	description	cod.	price € each 1 - 10+ pcs
	the body is made entirely of porcelain ceramic with a ferrite core	**SBK-06N**	2,50
	big size support with 2 pins with ferrite core	**SBK-07N**	0,40 - 0,36

horizontal mount

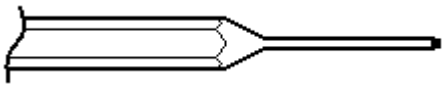
	4 pins support horizontal mount, see SBK-NF1 for the core	**SBK-98**	0,25 - 0,22
	precision fine tuning, 4 pins support, horizontal mount	**SBK-99N**	2,40
	ferrite core for SBK-98	**SBK-NF1**	0,25 - 0,22

threaded screw supports



The thread guarantee the best mechanical fixing of the coils and stability over time.
With the thread you can also use silver plated wire because the turns are always kept well insulated by the it, this increase the Q of the coil thanks to the possibility to use silver plated wire.
These supports come without tuning core as they does not implement core tuning.

cod.	**SBK-50**	useful space for the coil = 5,2 mm , max 10 turns , max wire Ø 0,3 mm, max inductance ~ 500 nH
cod.	**SBK-51**	useful space for the coil = 5,7 mm , max 4,5 turns , max wire Ø 0,6 mm, max inductance ~ 100 nH
price	0,45 € -- 0,40 € each (10 + pcs)	



trimmers and coils tuning screwdrivers
see variable capacitors page

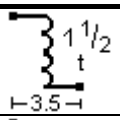
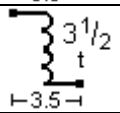
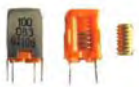
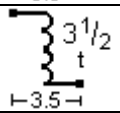
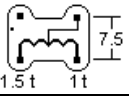
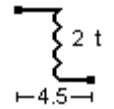
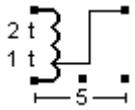
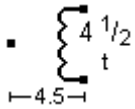
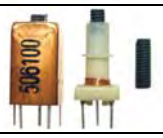
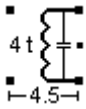
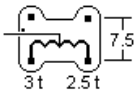
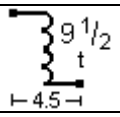
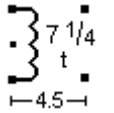
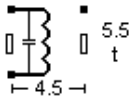
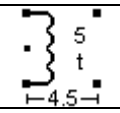
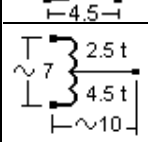
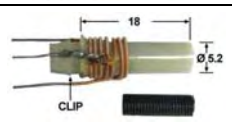
INTRODUCTION TO OUR VARIABLE COILS

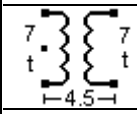
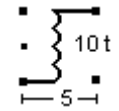
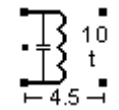
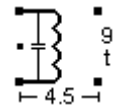
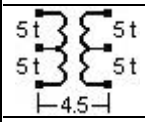
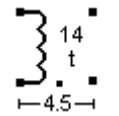
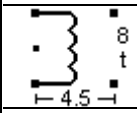
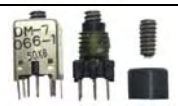
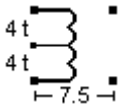
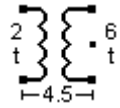
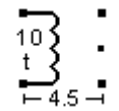
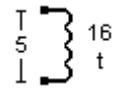
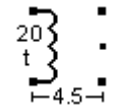
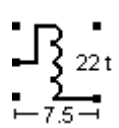
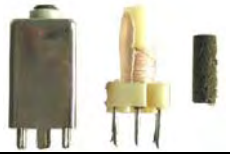
All these coils have been tested and characterized with our instrumentation: HP 4191A 1-1.000 MHz impedance analyzer, HP 4342A 22 KHz - 70 MHz precision Q meter and Racal 9383M RLC bridge.
Q value is referred to the measurement conditions (frequency and inductance values) and it is measured about at half of the inductance range.
The electrical diagram has to be viewed by the pin side, it is also available the number of turns. The picture shows the complete coil and all its parts, the picture is nearly in 1:1 scale and it shows quite the real size of the coil.
Coils with a parallel capacitor have also the auto-resonance value in MHz due to the internal capacitor, for these coils the maximum frequency is that stated, while the minimum frequency can be decreased by adding an external capacitor.
“MOLDED” indicates a different way of manufacturing of these coils, they are rugged, the turns are winded on a polypropylene support more resistant either to soldering and to mechanical torque and they are often use for VHF - UHF band, in “molded” coil the support has the purpose to keep the turns stable and separate to obtain the highest possible Q and thermal stability.
The “□” symbol indicates the coil external size while in the picture there is the pins pitch.
After a long work of research of technical specifications, we believe that this can be an helpful aid in choosing a component that fits as possible different projects.
The tests results have been collected directly in our lab so the specifications are often more complete than those provided by the manufacturers.

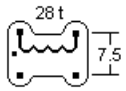
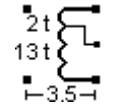
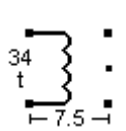
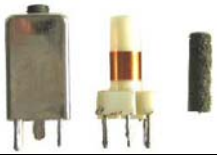
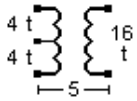
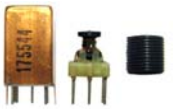
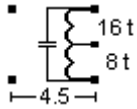
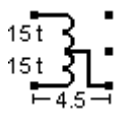
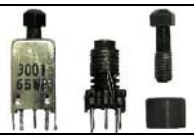
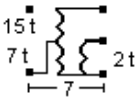
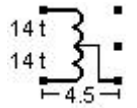
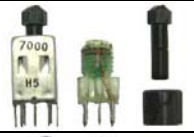
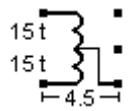
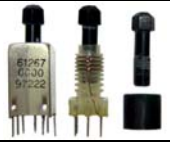
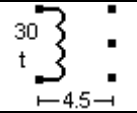
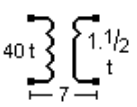
HP 4191A
impedance analyzer, RLC , phase and Q meter
1 MHz - 1 GHz

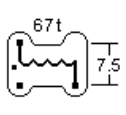
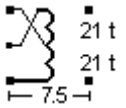
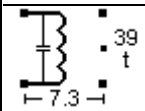
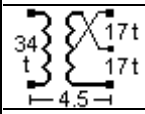
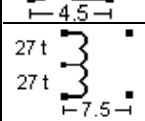
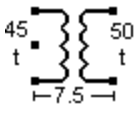
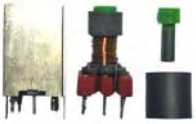
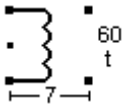
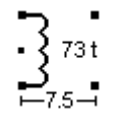
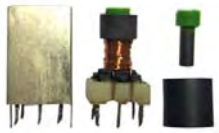
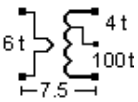
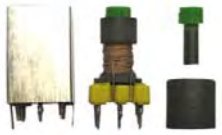
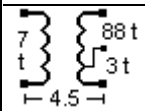
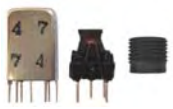
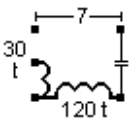
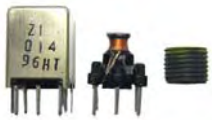
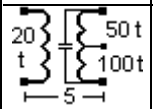
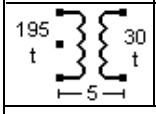
HP 4342A
high precision Q meter
22 KHz - 70 MHz

Racal 9343M
LCR universal bridge

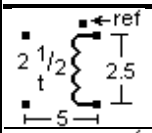
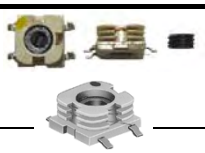
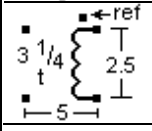
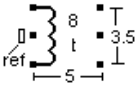
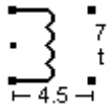
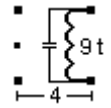
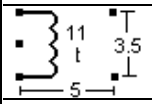
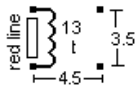
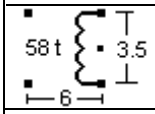
bottom view		inductance range	☐ = external size	cod.	price € each 1 - 10 pcs
		10.5 - 14 nH	Toko MC139 Molded NE545BNAS-100081 1.5 turns , brass core, white Q >55 @ 400MHz ☐ 5.5 - h 8 mm	**BV-100081**	1,60 - 1,40
		24 - 31 nH	Toko MC139 Molded NE545BNAS-100083 3.5 turns, brass core, orange Q 55-90 @ 150MHz ☐ 5.5 - h 8 mm	**BV-100083-5**	1,40 - 1,25 1,10 100pcs
		33 - 44 nH	Toko MC139 Molded NE545SNAS-100105 3.5 turns , orange Q 55-90 @ 150 MHz ☐ 5.5 - h 8 mm	**BV-100105**	1,40 - 1,25 1,10 100pcs
		38 - 46 nH	1.5 + 1 turns Q > 80 (@ 70 MHz @ 40 nH) ☐ 9 - h 12 mm max , without pins	**BV-BSP2**	1,00 - 0,90
		38 - 46 nH	Coilcraft 150-02J08SL Molded 2.5 turns high quality and high Q VHF coil Q > 80 (@ 50 MHz @ 40 nH) SRF > 1.5 GHz , Rdc 0.009 Ω ☐ 7 - h 14	**BV-150**	1,80 - 1,60
		43 - 57 nH	3 silver wire turns (2 + 1) Q > 110 (@ 70 MHz @ 50 nH) ☐ 10 - h 20	**BV-1717**	1,70 finishing
		105 - 140 nH	Neosid 5061 , 4 1/2 turns Q 90 (@ 130 MHz @ 125 nH) ☐ 7 - h 14	**BV-5061**	2,00
		125 - 225 nH	4 turns - 100 pF capacity resonance L+C 34-45 MHz if it will be used as resonant circuit the max. frequency will be about 43 MHz coil Q > 65 (@ 40 MHz @ 170 nH) ☐ 7.5 - h 13 mm	**BV-5538**	1,00 - 0,90
		145 - 235 nH	2.5 + 3 turns very good Q >90 (@ 50 MHz @ 180 nH) >60 >10 MHz the coil has no pins (see picture) ☐ 9 - h 14 mm max	**BV-BSP5**	0,90 - 0,80
		190 - 250 nH	Toko MC136 Molded E542DNAS-100083 9.5 turns , red Q 65-90 @ 70 MHz ☐ 7.7 - h 10 mm	**BV-100083-7**	1,70 - 1,50
		200-340 nH	Neosid 5049 , 7 1/4 turns Q 75 (@ 40 MHz @ 270 nH) ☐ 7 - h 13 mm	**BV-5049**	2,20
		210 - 400 nH	5 turns , 58 pF capacity coil Q > 65 (25 ÷ 85 MHz) resonance L+C = 35-47 MHz if it will be used as resonant circuit the max. frequency will be about 45 MHz ☐ 7 - h 13 mm	**BV-2019**	1,50
		230 - 400 nH	5 turns Q > 70 (@ 40 MHz @ 320 nH) ☐ 7.5 - h 10 mm	**BV-612369**	1,50 - 1,30
		260 - 400 nH	4.5 + 2.5 turns Q > 90 (10 - 55 MHz) Ø 7.5 - h 18 mm , to insert as clip in the p.c.b. in a hole of Ø 5.8-6 mm	**BV-BFB3**	0,60 - 0,50

bottom view		inductance range	☐ = external size	cod.	price € each 1 - 10 pcs
		270 - 430 nH	7 turns - 7 turns Q 40 (@ 50 MHz @ 350 nH) ☐ 7 - h 11	**BV-304142**	0,90 - 0,80 0,70 100pcs
		330 - 630 nH	10 turns Q > 60 (15 ÷ 70 MHz @ 500 nH) ☐ 10 - h 15 mm	**BV-0721**	1,70
		400 - 630 nH	10 turns - capacity 33 pF resonance L+C 35-43 MHz if it will be used as resonant circuit the max. frequency will be about 40 MHz coil Q > 65 (@ 36 MHz @ 0.5 µH) ☐ 7.5 - h 13 mm	**BV-R22G**	1,20 - 1,10 0,95 100pcs
		420 - 750 nH	9 turns , capacity 24 pF coil Q > 70 (15÷60 MHz @ 600 nH) resonance L+C 37 - 50 MHz if it will be used as resonant circuit the max. frequency will be about 48 MHz ☐ 7 - h 15 mm	**BV-GNA**	1,70
		500 - 850 nH	5 + 5 turns , both windings are central tab , Q > 40 (@ 25 MHz @ 0.7 µH) ☐ 7.5 - h 12 mm	**BV-8140**	1,00 - 0,90 0,80 100pcs
		500-950 nH	Neosid 5046 , 14 turns Q 70 (@ 40 MHz @ 730 nH) ☐ 7 - h 15 mm	**BV-5046**	2,20
		0.5 - 1 µH	8 turns Q > 70 (10 - 40 MHz @ 0.75 µH) ☐ 7 - h 14	**BV-DM 7066**	1,40 - 1,20
		0.6 - 1.5 µH	4 + 4 turns (central tab) Q > 55 (a 8 MHz @ 1.2 µH) , ☐ 10 - h 12 mm	**BV-L1-3562**	1,50 - 1,30
		0,9 - 1.3 µH	6 turns - 2 turns Q > 70 (@ 10 MHz @ 1.2 µH) inductance value and Q are referred to 6 turns side ☐ 7.5 - h 7 mm	**BV-00302**	1,40 - 1,20
		0.9 - 1.4 µH	10 turns Q > 80 (@ 20 MHz @ 1.2 µH) ☐ 7.5 - h 15 - 20 mm	**BV-N809**	1,50 - 1,30
		1,2 - 2.8 µH	16 turns Q > 45 (@ 15 MHz @ 1.8 µH) O 6 - h 13	**BV - J**	1,00 - 0,90
		1.6 - 4 µH	20 turns , Q > 40 (@ 20 MHz @ 3µH) ☐ 7.5 - h 14 mm like Neosid 5056	**BV-5056**	1,80 - 1,60
		1.7 - 3.2 µH	22 turns , Q > 70 (@ 10 MHz @ 2.5 µH) ☐ 10 - h 17 mm	**BV-1.7-3.2**	1,40

bottom view		inductance range	□ = external size	cod.	price € each 1 - 10 pcs
		2.1 - 2.6 µH	28 turns Q > 70 (> 10 MHz @ 2.4 µH) the coil has no pins (see picture) □ 9 - h 15 mm max	**BV-BSP28**	1,00 - 0,90
		3 - 4.6 µH	2 + 13 turns , the inductance value is the sum of the two windings Q > 90 (@ 8 MHz @ 3.7 µH) □ 6 - h 6.5 mm	**BV-3777**	1,30 - 1,15 1,00 100pcs
		3.9 - 7.4 µH	34 turns , Q > 60 (@ 8 MHz @ 5 µH) □ 10 - h 17 mm	**BV-3.9-7.4**	1,50
		4 - 6.3 µH	Neosid 175544 16 turns (4 - 6.3 µH) - 4 + 4 turns Q > 75 (3.5 - 15 MHz @ 5.3 µH) □ 7 - h 12 mm	**BV-175544**	1,40 - 1,25 1,10 100pcs
		4 - 8 µH	Coilcraft 8141-812-400 16 + 8 turns (the inductance value is the sum of 16 + 8 windings) capacity 70pF, resonance L+C = 6-9 MHz if it will be used as resonant circuit the max. frequency will be about 8.5 MHz MHz coil Q > 45 (@ 6.5 µH @ 7 MHz) □ 7 - h 16 mm	**BV-8141**	1,00 - 0,90 0,80 100pcs
		5 - 12 µH	15 + 15 turns (central tab) Q > 65 (@ 3 MHz a 10 µH) □ 7.5 - h 15 max 23 mm	**BV-3001**	1,40 - 1,20
		5,2 - 7,8 µH	7 + 15 turns (5.2 ÷ 7.8 µH) - 2 turns Q > 100 (1 ÷ 15 MHz @ 6.5 µH) high Q due to the litz cable □ 10.5 - h 23 mm	**BV - D**	1,00 - 0,90
		6 - 15 µH	14 + 14 turns (central tab) Q > 65 (a 3 MHz @ 10 µH) □ 7.5 - h 15 max 23 mm	**BV-7000**	1,50 - 1,30
		6 - 12 µH	15 + 15 turns (central tab) Q > 80 (@ 7 MHz @ 9 µH) □ 7 - h 20 mm	**BV-612.670**	1,10 - 0,95 0,85 100pcs
		8 - 15 µH	30 turns Q > 80 (@ 3 MHz @ 12 µH) □ 7 - h 14 mm	**BV-612.351**	1,10 - 0,95 0,85 100pcs
		10 - 16 µH	40 turns - 1.5 turns Q > 45 (@ 2 MHz @ 12 µH) □ 10 - h 18 max 23 mm	**BV-10R**	1,40 - 1,20

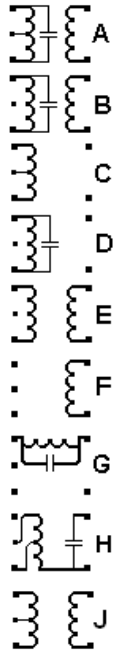
bottom view		inductance range	□ = external size	cod.	price € each 1 - 10 pcs
		11 - 19 µH	67 turns Q > 80 (a 5 MHz @ 15 µH) the coil has no pins (see picture) □ 9 - h 14 mm max	**BV-BSP67**	1,00 - 0,90
		13 - 19 µH	21 + 21 turns (central tab) Q > 50 (@ 2 MHz @ 17µH) □ 10.5 - h 18 max 23 mm	**BV-15N**	1,30 - 1,15 1,00 100pcs
		13 - 20 µH	26 turns , 82 pF capacity resonance L+C = 3.8 ÷ 5 MHz coil Q > 90 (@ 5 MHz @ 16 µH) □ 7 - h 12 mm	**BV-R22E**	0,80
		14 - 27 µH	39 turns // 82 pF resonance L+C 3,4-5 MHz coil Q = 60 (1 ÷ 5 MHz @ 22µH) □ 10.5 - h 14 mm	**BV-856**	1,20
		23 - 38 µH	34 - 17+17 turns (central tab) Q > 70 (@ 2 MHz @ 30 µH) □ 7.5 - h 7 mm	**BV-0321**	1,20 - 1,05
		32 - 45 µH	27 + 27 turns (central tab) Q > 55 (@ 1 MHz @ 40 µH) □ 10 - h 15 mm	**BV-SJ032**	1,30 - 1,15
		52 - 70 µH + 45 - 60 µH	45 turns (45 ÷ 60 µH) 50 turns (52 ÷ 70 µH) Q > 50 (@ 455 KHz) □ 11 - h 19 mm	**BV - B**	1,00
		90 - 160 µH	60 turns Q > 100 (@ 455 KHz @ 130 µH) □ 10 - h 13 mm	**BV-960T**	1,20 - 1,05
		95 - 130 µH	73 turns , Q > 70 (@ 455 KHz @ 115 µH) □ 11 - h 19 mm	**BV - A**	1,00 - 0,90
		190 - 275 µH	100 + 4 turns (190 - 275 µH) - 6 turns Q > 70 (@ 455 KHz @ 230 µH) □ 11 - h 19 mm	**BV - C**	1,00
		270 - 560 µH	88 + 3 turns - 7 turns inductance value is the sum of 88+3 turns Q > 130 (@ 455 KHz @ 420 µH) □ 7.5 - h 12 mm	**BV-4774**	1,30 - 1,15
		500 - 900 µH	120 + 30 turns , capacity 180 pF Q > 100 (a 455 KHz @ 700 µH) □ 10 - h 13 mm	**BV-96HT**	0,70 - 0,60
		600 - 930 µH	50 + 100 turns (600 - 930 µH) // 182 pF + 20 turns, resonance L+C 400 - 500 KHz coil Q > 80 (@ 455 KHz @ 750 µH) □ 7 - h 7 mm	**BV-114184**	1,10 - 0,95
		700 - 1030 µH	195 turns (700 - 1030 µH) + 30 turns Q > 80 (@ 1 MHz @ 880 µH) Q 130 (@ 455 KHz @ 880 µH) □ 7 - h12 mm	**BV-532910**	1,50 - 1,35

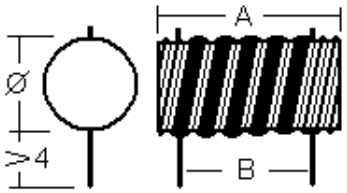
THESE ARE SMD (SURFACE MOUNT) COILS

bottom view		inductance range	□ = external size	cod.	price € each 1 - 10 pcs
		45 - 49 nH	Toko 657BN-A048CDL 5CBM series 2 $^1/_2$ turns , Q > 50 (@ 100 MHz @ 47 nH) □ 4.5 - h 2.2 mm , yellow dot reference	**BV-A048**	0,90 - 0,80 0,70 100pcs
		68 - 74 nH	Toko 657BN-A047CDL 5CBM series 3 $^1/_4$ turns , Q > 55 (a 100 MHz a 70 nH) □ 4.5 - h 2.2 mm , red dot reference	**BV-A047**	0,90 - 0,80 0,70 100pcs
		345 - 445 nH	 Toko A638AN-A015HM 5CCE series , 8 turns Q > 60 @ 50 MHz , □ 6 - h 6 mm	**BV-4038**	0,90 - 0,80 0,70 100pcs
		150 nH as supplied (125 - 180 nH)	7 turns , Q > 60 (40 ÷ 140 MHz @ 150 nH) (remove the black plastic cover to tune) max 1 A , SRF > 750 MHz , Rdc 0.04 Ω 5.6 x 4 h 6.8 (max 9)	**BV-42235**	0,70 - 0,60
		1 - 1.4 µH	Toko 5CD series 9 turns // 13 pF, Q > 70 @ 20 MHz optimal frequency up to 30 MHz resonance @ 30MHz add // 12pF @ 10MHz // 250pF , □ 5 - h 5 mm	**BV-83**	0,90 - 0,80 0,70 100pcs
		1.8 - 2.3 µH	SMD , 11 turns Q > 70 @ 10.7 MHz - □ 6 - h 6 mm	**BV-1-22**	1,00 - 0,90 0,80 100pcs
		2.35 - 2,85 µH	Toko L372PN-1141Z 5CDLS series 13 turns , Q > 50 (@ 10.7 MHz @ 2.6 MHz) □ 5 - h 2 mm	**BV-372PN**	0,90 - 0,80
		38 - 66 µH	Toko P614BN-0757Z 5CCD series 58 turns , Q > 60 (@ 2 MHz @ 52 µH) □ 6 - h 6 mm	**BV-32-5**	0,90 - 0,80

IF Coils and Trasformers : 455 KHz - 5.5 e 10.7 MHz pag L 9

They are coils and / or tranformers often used in the amplification of intermediate frequency receivers for AM, FM, etc.. , Intermediate frequency values are 455 / 460 KHz, 10.7 MHz and 5.5 MHz too. Each coil is supplied with shield and tuning ferrite core, choose design represented by the letter A to J according your application (see pictures).

picture	freq.	external size	design		cod.	price €
	**455 KHz**	□ 10 mm	A	AM1 yellow	**B-455-A-10-G**	1,00
		□ 10 mm	A	AM2 white	**B-455-A-10-B**	0,80
		□ 10 mm	A	AM3 black	**B-455-A-10-N**	1,00
		□ 10 mm	E	L.O. red	**B-455-E-10-R**	0,75
		□ 10 mm	H	yellow , made of 30 + 120 turns and a 180pF internal capacitor	**B-455-H-10-G**	0,70
		□ 7 mm	A	AM1 yellow	**B-455-A-7-G**	0,90
		□ 7 mm	D	white	**B-455-D-7-B**	0,60
		□ 7 mm	A	AM3 black	**B-455-A-7-N**	0,70
		□ 6 mm	A	black	**B-455-A-6-N**	0.65
	5.5 MHz	□ 7 mm	G	see also winded coils	**B-5.5-G-7-V**	0,80
	10 .7 MHz					
		□ 10 mm	B	green	**B-10.7-B-10-V**	0,90
		□ 7 mm	C	azure	**B-10.7-C-7-A**	0,70
		□ 7 mm	F	black	**B-10.7-F-7-N**	0,65
		□ 7 mm	B	green	**B-10.7-B-7-V**	0,80
		□ 7 mm	J	FM1 black , for 10.7MHz resonance the capacitor has to be from 47 to 56pF	**B-10.7-J-7- N**	0,80



These coils are winded on an insulate threaded support and they have the following advantages: mechanically rugged, high thermal stability and high repeatability as the turns are forced to remain wrapped within the thread and winded tight and hot made. They have high Q, low parasitic capacity and high SRF, each coil was tested in our laboratory, the Q was measured at a given frequency and shown in "MHz" column.

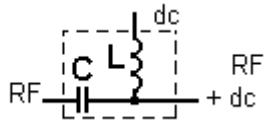
induct. nH	Q	MHz	size A	size B	size Ø	cod.	price €
30	70	100	7.5	3.5	4	**B-F30-4**	0,55
50	90	100	11	6.5	6	**B-F50-6**	0,55
60	70	100	7.5	3	4	**B-F60-4**	0,55
60	85	100	12	7.5	6	**B-F60-6**	0,55
70	70	100	9	5	4	**B-F70-4**	0,55
80	80	100	11	7	6	**B-F80-6**	0,55
100	65	70	9	5	4	**B-F100-4**	0,55
100	78	70	11	6	6	**B-F100-6**	0,55
110	80	70	10	6	4	**B-F110-4**	0,55
115	80	70	11	6.5	6	**B-F115-6**	0,55
125	80	70	10	6	4	**B-F125-4**	0,55
125	85	70	12	7.5	6	**B-F125-6**	0,55
130	95	70	16	12	6	**B-F130-6**	0,55
150	65	70	12	7.5	4	**B-F150-4**	0,55
150	85	70	12	7.5	6	**B-F150-6**	0,55
175	100	70	14	9.5	6	**B-F175-6**	0,55
200	75	70	12	7.5	4	**B-F200-4**	0,55
225	95	70	9	5	6	**B-F225-6**	0,55
250	70	30	10	6	6	**B-F250-C**	0,55
250	80	30	16	11	6	**B-F250-L**	0,55
275	74	30	10	6	6	**B-F275-6**	0,55
280	80	30	18	13.5	6	**B-F280-6**	0,55
300	78	30	11	6.5	6	**B-F300-C**	0,55
300	80	30	18	13.5	6	**B-F300-L**	0,55
500 also power apps	120	30	23	18.5	12	**B-F500-12**	0,70
600	90	30	14	9	6	**B-F600-6**	0,55
625	90	30	11	7.5	6	**B-F625-6**	0,55
725	100	30	14	9	6	**B-F725-6**	0,55

SPECIAL Inductances : high SRF , for BIAS - T , QPL and ultra-stable

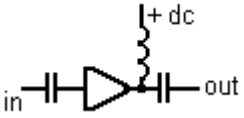
These inductors for microwave have high SRF and very good QPL, they are stable in temperature so they are used for very critical functions like BIAS T or "decoupling on power supply". BIAS T does not come cheap or easy to build, the aim is to supply power to an RF device like broadband MMIC, low noise amp., switch, pin or tuning varactor etc..
The difficulty is to select critical components, C and L, free from parasitic resonances within a wide frequency range (3-5 decades), technicians well know the importance of good decoupling in amplifiers and high performance active devices. One rule is to reduce the size, in fact, two of these inductors have an SRF> 15 GHz, another inductances can be inserted in order to obtain the desired value. They can be considered as a complementary component of beam-lead capacitors, the size is so small that the similarity is almost appropriate.

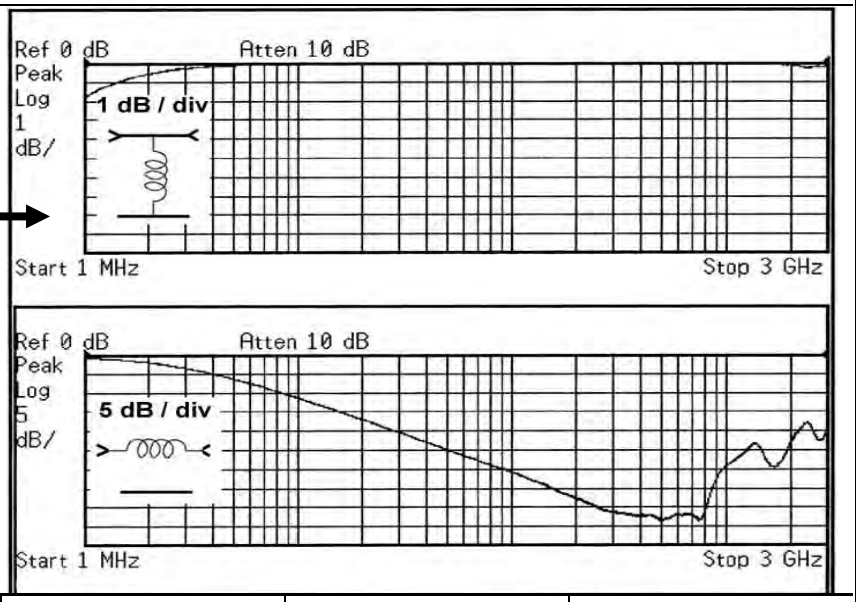
value	test freq MHz	test freq Q	SRF self res.	max res.	I dc max	they can even be soldered normally but at lower temperatures	cod.	price € each 1 - 10 pcs
11 nH	200	>35	> 15 GHz	0,40 Ω	200 mA	4 turns Ø supp. 0.6mm gold wire Ø 50 µm turn pitch 0,07 mm micro-miniature Microwave Corporation 4-2544-GSA-11	**BSRF-11N**	4,00 - 3,50
17.5 nH	300	100	>2.5GHz tip. 4 GHz	0.05 Ω	4 A	6.5 x 3.2 mm Coilcraft B06TJ 5 % ultra high Q (Q > 90 100 - 600 MHz)	**BCQ-17n5**	0,60 - 0,55
24 nH	200	>32	> 15 GHz	0.29 Ω	100 mA	ext. Ø 0.6 x 0,3 mm insulated wire Ø 36 µm QPL standards , Piconics M5T47 suitable for bonding	**BSRF-24N**	5,50 - 5,00
35 nH	200	>60	> 1.4 GHz	0.1 Ω	1 A	ext..Ø 2 x lenght 3 mm enameled copper wire, encapsulated in epoxy resin, QPL standards, ultra stable vs. temperature +/- 15 ppn /°C Piconics S350K **provided in 5 pcs pack**	**BSRF-35N**	1 pack of 5 pcs = 17,50 € (= 3,50 € each) / 3 packs of 5 pcs = 48,00 € (= 3,20 € each)
43 nH	200	100	>1.5GHz tip. 2.5 GHz	0.08 Ω	4 A	6.5 x 3.2 mm Coilcraft B10TJ 5 % ultra high Q (Q > 90 100-300 MHz)	**BCQ-43N**	0,60

BIAS T



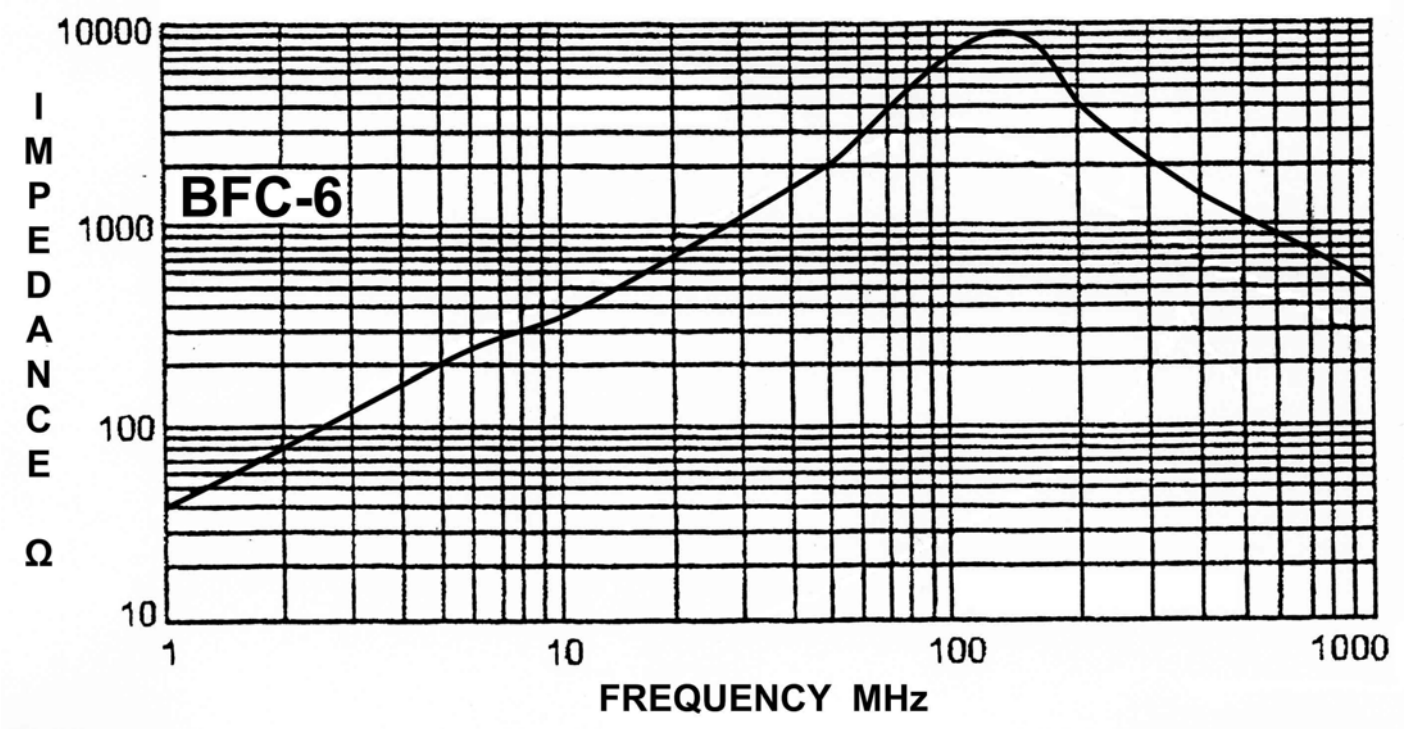
Typical decoupling on wide band MMIC power supply



VHF-UHF choke 	6 µH choke suitable for any use from 20 MHz to 2 GHz for power supply decoupling, winded with Ø 0,3 mm enamelled copper wire on ferrite base Ø 2 mm, lenght 14 mm, max 1 A , Res. dc 0,06 Ω	BFC-6 in parallel (loss) → BFC-6 in series (decoupling)	

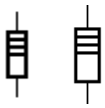
cod. BFC-6	price 1 - 9 pcs 0,25 € each	price 10 - 24 pcs 0,23 € each	price 25 - 99 pcs 0,21 € each	price 100 - 249 pcs 0,19 € each

impedance vs. frequency

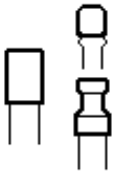


note that for the construction of this type of impedance (RF choke for HF-VHF-UHF) are available a variety of ferrite rods, for example. types BF1 and BF2. It is possible to build a custom RF choke with an enamelled copper wire winding .

see ferrite rods types BF....

pict..	type	value	cod.	price €	value	cod.	price €	value	cod.	price €
	**AXIAL small size** Ø 3 x 8 or Ø 3.5 x 9 low voltage	27 nH	**BAP-27n**	0,45	0,82 µH	**BAP-0u82**	0,45	33 µH	**BAP-33u**	0,45
								39 µH	**BAP-39u**	
		0,1 µH	**BAP-0u1**		1 µH	**BAP-1u**		47 µH	**BAP-47u**	
		0,15 µH	**BAP-0u15**		1,5 µH	**BAP-1u5**		100 µH	**BAP-100u**	
		0,33 µH	**BAP-0u33**		1,8 µH	**BAP-1u8**		120 µH	**BAP-120u**	
					5,6 µH	**BAP-5u6**		180 µH	**BAP-180u**	
		0,56 µH	**BAP-0u56**		12 µH	**BAP-12u**		560 µH	**BAP-560u**	
		0,68 µH	**BAP-0u68**		15 µH	**BAP-15u**		820 µH	**BAP-820u**	
	**AXIAL medium size** Ø 4 x 10 or Ø 5.6 x 13 or 6.5 x 16 medium voltage	0,15 µH	**BAM-0u15**	0,45			0,45			0,45
		0,39 µH	**BAM-0u39**		2,7 µH	**BAM-2u7**		68 µH	**BAM-68u**	
		0,56 µH	**BAM-0u56**		12 µH	**BAM-12u**		110 µH	**BAM-110u**	
		0,68 µH	**BAM-0u68**					120 µH	**BAM-120u**	
		0,82 µH	**BAM-0u82**		22 µH	**BAM-22u**		220 µH	**BAM-220u**	
		1 µH	**BAM-1u**		27 µH	**BAM-27u**		820 µH	**BAM-820u**	
		1,2 µH	**BAM-1u2**							
	**AXIAL** high values	1 mH Ø 2,6	**BAA-1m-A**	0,50	1.5 mH Ø 3,6	**BAA-1m5**	0.50	2.7 mH Ø 3,6	**BAA-2m7**	0,50
		1 mH Ø 3,6	**BAA-1m-B**							

type	description	pict.	value	cod.	price €
AXIAL for medium voltage	on power supply general purpose HF VHF-UHF		Siemens Ø 4x 14 mm 14 µH Rs 0,7Ω 1 A	**BFC-414**	0,75
			Siemens Ø 8x 34 mm 25 µH Rs 0,02Ω 3 A coated type, B 82111-B-C23	**BFC-834**	0,90
			6 µH general purpose choke , from 20 MHz to 2 GHz for power supply decoupling, winded with Ø 0,3 mm enamelled copper wire on ferrite rod Ø 2 mm, lenght 14 mm, max 1 A , Res. dc 0,06 Ω	**BFC-6**	0,25 € 1-9 pz 0,23 € 10-24 pcs

	type	value	cod.	price €	value	cod.	price €	value	cod.	price €
	VERTICAL Neosid TDK or Toko	0,47 µH	**BV-0u47**	0,45	8,2 µH	**BV-8u2**	0,45	47 µH	**BV-47u**	0,45
		2,2 µH	**BV-2u2**		22 µH	**BV-22u**		68 µH	**BV-68u**	
		3.3 µH	**BV-3u3**		33 µH	**BV-33u**		100 µH	**BV-100u**	

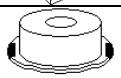
type	pict.	description	cod.	price € each 1 - 10 pz
VK 200 RF choke for power supply in the TX final power stage , for medium-high current		with 1,5 turns suitable for VHF - UHF	**VK 200-1**	0,45 - 0,40
		with 2,5 turns suitable for HF - VHF - UHF	**VK 200-2**	0,50 - 0,45
		2 separate windings to increase common-mode rejection	**VK 200-D**	0,65
		6 holes ferrite suitable for building VK 200 chokes	**VK 200-F**	0,25 - 0,20

They are SMD inductors used as general purose choke to supply power or to decouple RF parts of the power supply, for Bias T etc... for low and medium current. For applications such as RF matching, oscillating circuits (eg VCO) or resonant circuits, it is most recommended to use high-Q inductors described on the next pages.

SMD NORMAL Choke		available values	cod.	price € each
	nH	10n - 12n - 15n - 18n - 22n - 27n - 33n - 39n - 47n - 56n - 68n - 82n - 100n - 120n - 150n - 180n - 220n - 270n - 330n - 390n - 470n - 560n - 680n - 820n	**BCN + inductance value** eg. BCN-5u6	1 - 4 pcs = 0,25 € 5 - 9 pcs = 0,22 € 10 - 30 pcs = 0,20 € 31-100pcs = 0,18 € 101 + pcs = 0,16 €
	μH	1u - 1u2 - 1u5 - 1u8 - 2u2 - 2u7 - 3u3 - 3u9 - 4u7 - 5u6 - 8u2 - 10u - 15u - 18u - 22u - 27u - 33u - 47u - 68u - 82u - 100u 120u - 180u - 220u - 270u - 330u - 390u - 470u - 1000u (1mH)		

“HIGH CURRENT” CHIP Inductances for SMD

These SMD inductors are used for high current.

SMD HIGH CURRENT choke		available values	cod.	price € each 1 - 10 pcs
	**17.5 nH**	4 A 0.08 Ω 3.2 x 6.5 mm Coilcraft B10TJ 5 % high Q (Q > 90 100-600 MHz) best use as choke for over 1 GHz power stages power supply	**BCQ-17N5**	0,60 - 0,55
	43 nH	4 A 0.1 Ω 6.5 x 3.2 mm Coilcraft B10TJ 5 % high Q (Q > 90 100-300 MHz) best use as choke for over 400 MHz power stages power supply	**BCQ-43N**	0,60
	**150 nH**	1 A 0.04 Ω high Q > 60 (40 ÷ 140 MHz) SRF > 750 MHz 5.6 x 4 h 6.8 mm	**BV-42235**	0,70 - 0,60
	**1.5 μH**	0.8 A 0.15 Ω high SRF > 300 MHz 4.5 x 3.2 mm	**BCC-1U5**	0,35 - 0,30
	**3.3 μH**	6.4 A 0.015 Ω Coilcraft DO3316P-332 9.4 x 13mm	**BCC-3N3**	0,60
	10 μH	3.8 A 0.038 Ω Coilcraft DO3316P-103 9.4 x 13 mm	**BCC-10U**	0,50 - 0,45
	22 μH	1 A 0.11 Ω TDK SLF7032T 9.5 x 12.5 mm	**BCC-22U-A**	0,50 - 0,45
	**22 μH**	1.8 A 0.18 Ω Coilcraft DO3308P-223 9.4 x 13 mm	**BCC-22U-B**	0,60 - 0,55
	**68 μH**	1.2 A 0.15 Ω Coilcraft 9.4 x 13 mm	**BCC-68U**	0,50 - 0,45
	**150 μH**	0.5 A 0,63 Ω Murata shielded type 6.3 x 6.3 mm	**BCC-150U**	0,35 - 0.30
	**470 μH**	0.25 A 3 Ω Toko shielded type 817CE-471 Type D73LC 7.6 x 7.6 mm	**BCC-470U**	0,40 - 0,35

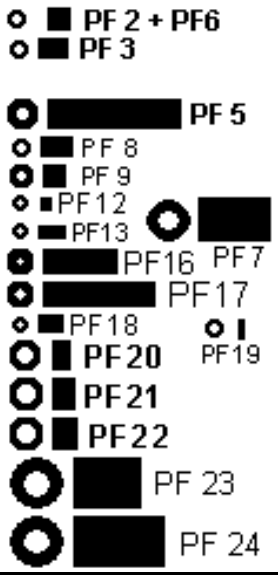
These inductances are used where are required better RF or microwave performances, for example, a higher frequency of self resonance (SRF), or a better Q, or both, with better accuracy and repeatability, they are therefore to be used in VCO, oscillating or resonating circuits, RF filters, matching circuits, etc..

induct. **nH**	SRF - Self Res. Freq.	**Q**	Q test freq.	resist Ω	I max	**size mm** 1.6x0.8=0603 - 2x1.3=0805 2.8x2.6=1008 - 3.2x1.6=1206	**cod.**	price € 1 - 10+pcs
1.5 nH	> 7 GHz	80	1.8 GHz	0.04	1 A	1.6 x 0.8 Toko LL1608F	**BCQ-1n5-A**	0,30 - 0,26
	> 6 GHz	>60	2 GHz	0.15	280m	1x0.5 (0402) Murata LQP10 ±0.2nH	**BCQ-1n5-B**	0,25 - 0,20
1.8 nH	> 10 GHz	52	1.8 GHz	0.05	1 A	1.6 x 0.8 Toko LL1608F	**BCQ-1n8-A**	0,30 - 0,26
	> 10 GHz	88	1.7 GHz	0.06	2 A	2 x 1.5 Avx AccuL ± 0.2 nH	**BCQ-1n8-B**	0,80 - 0,70
2.2 nH	> 6 GHz	> 55	1 GHz	0.1	300m	1.6 x 0.8 Murata LQG11A ± 0.3 nH	**BCQ-2n2**	0,25 - 0,20
2.7 nH	> 6 GHz	72	1.8 GHz	0.07	1 A	1.6 x 0.8 Toko LL1608F	**BCQ-2n7-A**	0.30 - 0,26
	> 10 GHz	80	1.7 GHz	0.08	2 A	2 x 1.5 Avx AccuL ±0.2 nH	**BCQ-2n7-B**	0,70 - 0,60
3.3 nH	> 6 GHz	55	1.5 GHz	0.2	300m	1.6 x 0.8 Murata LQP11A-LQP18MN	**BCQ-3n3-A**	0,35 , 0,30
	> 6 GHz	> 55	2 GHz	0.08	600m	2.2 x 1.6 Coilcraft 0805HS	**BCQ-3n3-B**	0,50 - 0,45
	> 6 GHz	> 30	1 GHz	0.3	190m	1x0.5 (0402) Murata LQP10 ±0.2nH	**BCQ-3n3-C**	0.25 - 0,20
3.9 nH	> 6 GHz	70	1.8 GHz	0.09	1 A	1.6 x 0.8 Toko LL1608F	**BCQ-3n9-A**	0,30 - 0,26
	> 7.5 GHz	>100 >150	0.8 GHz 1.5 GHz	0.006	2 A	2.4 x 1.4 Coilcraft 0906-4KL ultra High Q	**BCQ-3n9-B**	0,60 - 0,55
4.7 nH	> 5.5 GHz	70	1.8 GHz	0.09	1 A	1.6 x 0.8 Toko LL1608F	**BCQ-4n7-A**	0,32 - 0,28
	> 4 GHz	> 60	1 GHz		300m	2x1.2 Samsung CIH21T4N7SN ±0.3 nH	**BCQ-4n7-B**	0,25 - 0,20
	5.5 GHz	> 76	1.7 GHz	0.1	750m	2 x 1.5 AVX AccuL ± 0.5 nH	**BCQ-4n7-C**	0,70 - 0,60
	> 6 GHz	> 30	1 GHz	0.5	160m	1x0.5 (0402) Murata LQP10 ±0.2nH	**BCQ-4n7-D**	0,25 - 0,20
5.6 nH	> 4 GHz	60	1.8 GHz	0.09	600m	1.6 x 0.8 Toko LL1608F ± 0.3 nH	**BCQ-5n6-A**	0,30 - 0,26
	> 3 GHz	> 25				3.2 x 2.5 Simid 01	**BCQ-5n6-B**	0,40 - 0,35
6.8 nH	> 4 GHz	67	1.8 GHz	0.1	600m	1.6 x 0.8 Toko LL1608F	**BCQ-6n8-A**	0,30 - 0,26
	> 5 GHz	> 70	1.5 GHz	0.06	1 A	3.2 x 1.6 Stettner 5503	**BCQ-6n8-B**	0,30 - 0,26
8.2 nH	> 3.5 GHz	40	1 GHz	0.2	300m	1.6 x 0.8 Murata	**BCQ-8n2-A**	0,30 - 0,26
	> 5 GHz	50	1 GHz	0.22	600m	2.8 x 2.6 Coilcraft 1008CT	**BCQ-8n2-B**	0,40 - 0,35
	> 3.5 GHz	55	1.7 GHz	0.12	1.5A	2 x 1.5 AVX AccuL ± 0.5 nH	**BCQ-8n2-C**	0,70 - 0,60
	> 3.6 GHz	> 40	1 GHz	0.5	150m	1.6x0.8 Murata LQP11A ± 0.2nH	**BCQ-8n2-D**	0,32 - 0,28
10 nH	> 2 GHz	60	1 GHz	0.08	1 A	3.2 x 2.5 Murata LQN2A	**BCQ-10n-A**	0,30 - 0,26
	> 2.5 GHz	60	1 GHz	0.13	1.5 A	2 x 1.5 Avx AccuL ± 5 %	**BCQ-10n-B**	1,00
	> 4.5 GHz	> 25	1 GHz	1	100m	1x0.5 (0402) Murata LQP10 ± 2 %	**BCQ-10n-C**	0,25 - 0,20
	> 2 GHz	60	1 GHz	0.06	300m	2 x 1.2 Toko LL2012F	**BCQ-10n-D**	0,35 - 0,30
	> 3.4 GHz	53	1 GHz	0.12	600m	1.6 x 0.8 Toko LL1608F ± 5 %	**BCQ-10n-E**	0,30 - 0,26
12 nH	> 2.8 GHz	58	1 GHz	0.13	600m	1.6 x 0.8 Toko LL1608	**BCQ-12n-A**	0.30 - 0.26
	> 3.3 GHz	> 70	1 GHz	0.09	1 A	2.8 x 2.6 Coilcraft 1008CS 10 %	**BCQ-12n-B**	0,40 - 0,35
	> 3.2 GHz	> 30				2 x 1.5 Murata LQW2BNH	**BCQ-12n-C**	0,35 - 0,30
15 nH	> 2.7 GHz	55	1 GHz	0.14	600m	1.6 x 0.8 LL1608F	**BCQ-15n-A**	0,30 - 0,26
	> 2.5 GHz	> 27				3.2 x 2.5 Simid 02	**BCQ-15n-B**	0,30 - 0,26
	> 2.5 GHz	> 70	1 GHz	0.1	1 A	2.8 x 2.6 Coilcraft 1008CS ± 5 %	**BCQ-15n-C**	0,45 - 0,40
	> 2.8 GHz	> 35	0.5 GHz	0.3	300m	1.6 x 0.8 Murata LQG11A15NJ ± 5 %	**BCQ-15n-D**	0,32 - 0,28
17 nH	> 1.8 GHz	> 60		0.04	650m	3.2 x 1.6 Murata LQN1A ± 5 %	**BCQ-17n**	0,45 - 0,40
17.5 nH	> 2.5 GHz tip. > 4 GHz	>100	300MHz	0.05	4 A	6.5 x 3.2 Coilcraft B06T ultra high Q (Q > 90 100-600 MHz) very good as Bias T in the frequency range of 800 MHz - 3.5 GHz, also suitable for high power stages	**BCQ-17n5**	0,60 - 0,55
18 nH	> 2 GHz	> 25				3.2 x 2.5 Simid 02	**BCQ-18n-A**	0,30 - 0,26
	> 2.4 GHz	58	1 GHz	0.18	600m	1.6 x 0.8 Toko LL1608F	**BCQ-18n-B**	0,30 - 0,26
	> 2.5 GHz	> 70	1 GHz	0.11	1 A	2.8 x 2.6 Coilcraft 1008CS	**BCQ-18n-C**	0,45 - 0,40
	> 2.6 GHz	> 35	0.5 GHz	0.35	300m	1.6x0.8 Murata LQG11A18NJ ± 5%	**BCQ-18n-D**	0,32 - 0,28

induct. **nH**	SRF - Self Res. Freq.	**Q**	Q test freq.	resist Ω	I max	**size mm** 1.6x0.8=0603 - 2x1.3=0805 2.8x2.6=1008 - 3.2x1.6=1206	**cod.**	price € 1 - 10+pcs
22 nH	> 1.8 GHz	> 35		0.25	410m	3.2 x 2.5 Murata LQN2A	**BCQ-22n-A**	0,30 - 0,26
	> 2.2 GHz	> 30	1 GHz		100m	1.6 x 0.8 Murata LQP18MN 2 %	**BCQ-22n-B**	0,30 - 0,26
	> 2.4 GHz	> 70	1 GHz	0.12	1 A	2.8 x 2.6 Coilcraft 1008CS	**BCQ-22n-C**	0,45 - 0,40
	> 2.5 GHz	> 70	1 GHz	0.14	600m	3.2 x 2.5 Simid 02 5 %	**BCQ-22n-D**	0,30 - 0,23 100pcs / 0,18
	> 2.1 GHz	> 50	500MHz	0.09	720m	2x1.5 Murata LQN21A22NJ ± 5 %	**BCQ-22n-E**	0,30 - 0,26
23 nH	> 1.6 GHz	> 60		0.05	590m	3.2 x 1.6 Murata LQN1A 5 %	**BCQ-23n**	0,35 - 0,30
27 nH	> 1,8 GHz	50	1 GHz	0.22	600m	1.6 x 0.8 Toko LL1608F	**BCQ-27n-A**	0.30 - 0.26
	> 1.5 GHz	> 60		0.05	560m	3.2 x 1.6 Murata LQN1A 5 %	**BCQ-27n-B**	0.35 - 0.30
	> 2.5 GHz tip. 3.5 GHz	> 60	500MHz	0.25	500m	2 x 1.5 Coilcraft 0805HS ± 5 %	**BCQ-27n-C**	0,40 - 0,35
	> 2 GHz	> 40	500MHz	0.5	300m	1.6x0.8 Murata LQG11A27NJ	**BCQ-27n-D**	0,30 - 0,26
33 nH	> 1.9 GHz	30		0.15	570m	2 x 1.5 Murata LQN21A	**BCQ-33n-A**	0,35 - 0,30
	> 1.7 GHz	50	900MHz	0.18	540m	3.2 x 2.5 Simid 02	**BCQ-33n-B**	0,35 - 0,30
	> 1.6 GHz	47	1 GHz	0.27	600m	1.6 x 0.8 Toko LL1608F 5 %	**BCQ-33n-C**	0,30 - 0,26
	> 2 GHz	60	500MHz	0.27	500m	2 x 1.5	**BCQ-33n-D**	0,35 - 0,30
39 nH	> 1.4 GHz	60	300MHz	0.18	530m	3.2 x 2.5 Simid 02	**BCQ-39n-A**	0.30 - 0,26
	> 1.4 GHz	44	1 GHz	0.26	600m	1.6 x 0.8 Toko LL1608F	**BCQ-39n-B**	0,30 - 0,26
	> 1.7 GHz	40				2 x 1.5 Murata LQN21A 5 %	**BCQ-39n-C**	0,35 - 0,30
43 nH	> 1.5 GHz tip. 2.5 GHz	100	200MHz	0,08	4 A	6.5 x 3.2 Coilcraft B10T 5 % ultra high Q (Q > 90 100-300 MHz)	**BCQ-43n**	0,70
47 nH	> 1.3 GHz	> 60	300MHz	0,13	500m	3.2 x 2.5 Murata LQN2A	**BCQ-47n-A**	0,30 - 0,26
	> 1.5 GHz	> 60	350MHz	0.16	1 A	2.8 x 2.6 Coilcraft 1008CS 5 %	**BCQ-47n-B**	0,35 - 0,30
	> 1.5 GHz	40	250MHz	0.23	450m	2 x 1.5 Murata LQN21A	**BCQ-47n-C**	0,30 - 0,26
	> 1.4 GHz	> 55	300MHz	0.13	1 A	3.2 x 1.6 Stettner 5135	**BCQ-47n-D**	0,30 - 0,26
56 nH	> 1.3 GHz	65	350MHz	0.18	1 A	2.8 x 2.6 Coilcraft 1008CS	**BCQ-56n-A**	0,35
	> 1.1 GHz	30	500MHz			2 x 1.3 Murata LQP21A 2 %	**BCQ-56n-C**	0,30 - 0,26
	> 1.2 GHz	38	500MHz	0.34	500m	1.6 x 0.8 Toko LL1608F 5 %	**BCQ-56n-D**	0,30 - 0,26
64 nH	> 1 GHz	> 60	430MHz	0,18	290m	3.2 x 1.6 Murata LQN1A 5 %	**BCQ-64n**	0,35 - 0,30
68 nH	> 0.8 GHz	> 45	400MHz	0,25	500m	3 x 2.5 Murata LQN2A	**BCQ-68n-A**	0,35 - 0,30
	> 1.3 GHz	> 30				3.2 x 2.5 Simid 01	**BCQ-68n-B**	0,30 - 0,26
	> 1.4 GHz tip. 2 GHz	> 60	500MHz	0.38	500m	2 x 1.5 Coilcraft 0805HS ± 5 %	**BCQ-68n-C**	0,40 - 0,35
	> 1 GHz	> 30	300MHz	0.7	300m	1.6x0.8 Murata LQG11A68N	**BCQ-68n-D**	0,30 - 0,26
82 nH	> 0.7 GHz	> 45	300MHz	0,25	300m	3.2 x 2.5 Murata LQN2A	**BCQ-82n-A**	0,28 - 0,25
	> 1 GHz	> 45	300MHz	0,4	320m	2 x 1.5 Murata LQN21A 5 %	**BCQ-82n-B**	0,35 - 0,30
	> 1 GHz	> 30		0,27	430m	3.2 x 2.5 Simid 01	**BCQ-82n-C**	0,30 - 0,26
100 nH	> 0.9 GHz	> 45	300MHz	0,38	350m	2 x 1.5 Murata LQN21A 5 %	**BCQ-100n-A**	0,30 - 0,26
	> 0.9 GHz	> 45	200MHz	0.15	820m	2.5 x 2.5 Stettner 5130	**BCQ-100n-B**	0,35 - 0,30
	> 1 GHz	> 30		0.3	400m	3.2 x 2.5 Simid 01	**BCQ-100n-C**	0,35 - 0,30
120 nH	> 900MHz	> 60	350MHz	0.6	650m	2.8 x 2.6 Coilcraft 1008CS 5 %	**BCQ-120n-A**	0,30 - 0,26
	> 900MHz	> 45	200MHz	0.15	820m	2.5 x 2.5 Stettner 5130	**BCQ-120n-B**	0.35 - 0.30
	> 800MHz	> 45	300MHz	0,4	320m	2 x 1.5 Murata 5 %	**BCQ-120n-C**	0,30 - 0,26
150 nH	> 800MHz	> 35	200MHz	0.36	370m	3.2 x 2.5 Simid 01 o Simid 02	**BCQ-150n-A**	0,30 - 0,26
	> 970MHz	> 45	100MHz	0,3	530m	3.2 x 2.5 Stettner 1210	**BCQ-150n-B**	0,35 - 0,30
	> 750MHz	60	40-140MHz	0.04	2 A	5.6 x 4 h 6.8	**BCQ-150n-C**	0,70 - 0,60
180 nH	> 1 GHz	> 50	250MHz	0,64	400m	2.2 x 1.6 Coilcraft 0805CS 2 %	**BCQ-180n**	0,35 - 0,32
220 nH	> 700MHz	> 30	100MHz	0.64	280m	3.2 x 2.5 Simid 02	**BCQ-220n-A**	0,30 - 0,26
	> 500MHz	> 35	100MHz	0.65	240m	2 x 1.5 Murata LQN21A 5%	**BCQ-220n-B**	0,30 - 0,26
	> 850MHz	> 35	50 MHz	0.47	430m	3.2 x 1.6 Stettner 5503	**BCQ-220n-C**	0,35 - 0,32
270 nH	> 650MHz	> 35	100MHz	0.9	235m	3.2 x 2.5 Simid 02	**BCQ-270n-A**	0,30 - 0,26
	> 600MHz	> 45	100MHz	0,9	500m	2.8 x 2.6 Coilcraft 1008CS o 1008CT	**BCQ-270n-B**	0,30 - 0,26

induct. **nH**	SRF - Self Res. Freq.	**Q**	Q test freq.	resist Ω	I max	**size mm** 1.6x0.8=0603 - 2x1.3=0805 2.8x2.6=1008 - 3.2x1.6=1206	**cod.**	price € 1 - 10+pcs
390 nH	> 500MHz	> 35	100MHz	0.75	500m	3.2 x 2.5 Simid 01	**BCQ-390n**	0,30 - 0,26
470 nH	> 450MHz	> 45	100MHz	1.1	470m	2.8 x 2.6 Coilcraft 1008CS	**BCQ-470n**	0,30 - 0,26
560 nH	> 400MHz	> 45	100MHz	1,3	400m	2.8 x 2.6 Coilcraft 1008CS 5 %	**BCQ-560n-A**	0,35 - 0,30
	> 400MHz	> 35	100MHz	2	400m	3.2 x 2.5 Simid 02	**BCQ-560n-B**	0,30 - 0,26
680 nH	> 500MHz	> 30	75 MHz	3	200m	2 x 1,5	**BCQ-680n**	0,30 - 0,26
820 nH	> 350MHz	> 30	50 MHz	1.7	300m	2.6 x 2.2	**BCQ-820n**	0,30 - 0,26
1 µH	> 330MHz	> 35	30 MHz	0.45	300m	3.2 x 2.5 Simid 01	**BCQ-1u-A**	0,30 - 0,26
	> 290MHz	> 35	50 MHz	1.8	370m	2.8 x 2.6 Coilcraft 1008CS o 1008HS	**BCQ-1u-B**	0,30 - 0,26
1.2 µH	> 230MHz	> 50	30 MHz	1.2	480m	4.8 x 3.8 Coilcraft 1812CS 2 %	**BCQ-1u2**	0,30 - 0,26
1.5 µH	> 210MHz	> 30	30 MHz	1.6	430m	4.8 x 3.8 Coilcraft 1812CS 2 %	**BCQ-1u5-A**	0,30 - 0,26
	> 270MHz	> 25	30 MHz	0.42	340m	3.2 x 2.5 Simid 02	**BCQ-1u5-B**	0,35 - 0,30
1.8 µH	> 140MHz	> 50	30 MHz	0.6	330m	3.2 x 2.5 TDK ACL3225S	**BCQ-1u8**	0,30 - 0,26
2.2 µH	> 160MHz	> 25	30 MHz	2.5	280m	2.8 x 2.6 Coilcraft 1008CS 5 %	**BCQ-2u2-A**	0,30 - 0,26
	> 240MHz	> 25	8 MHz	1.3	300m	3.2 x 1.6 Stettner 5503	**BCQ-2u2-B**	0,30 - 0,26
2.7 µH	> 180MHz	> 30	8 MHz	0,9	290m	3.2 x 2.5 Simid 02	**BCQ-2u7**	0,30 - 0,26
4.7 µH	> 90 MHz	> 25	10 MHz	4	260m	2.8 x 2.6 Coilcraft 1008CS	**BCQ-4u7-A**	0,30 - 0,26
	> 140MHz	> 35	8 MHz	1.8	160m	3.2 x 2.5 Simid 01	**BCQ-4u7-B**	0,35 - 0,30
10 µH	> 95 MHz	> 35	8 MHz	5.5	90 m	3.2 x 2.5 Simid 01	**BCQ-10u**	0,30 - 0,26
18 µH	> 30 MHz	> 50	5 MHz	5.5	130m	2.6 x 2.6 Delevan 130	**BCQ-18u**	0,35 - 0,30
27 µH	> 24 MHz	> 50	4 MHz	6	120m	2.6 x 2.6 Delevan 130	**BCQ-27u**	0,35 - 0,30
33 µH	> 13 MHz	> 27	2.5 MHz	4.5	105m	3.2 x 2.5 Simid 02	**BCQ-33u**	0,30 - 0,26

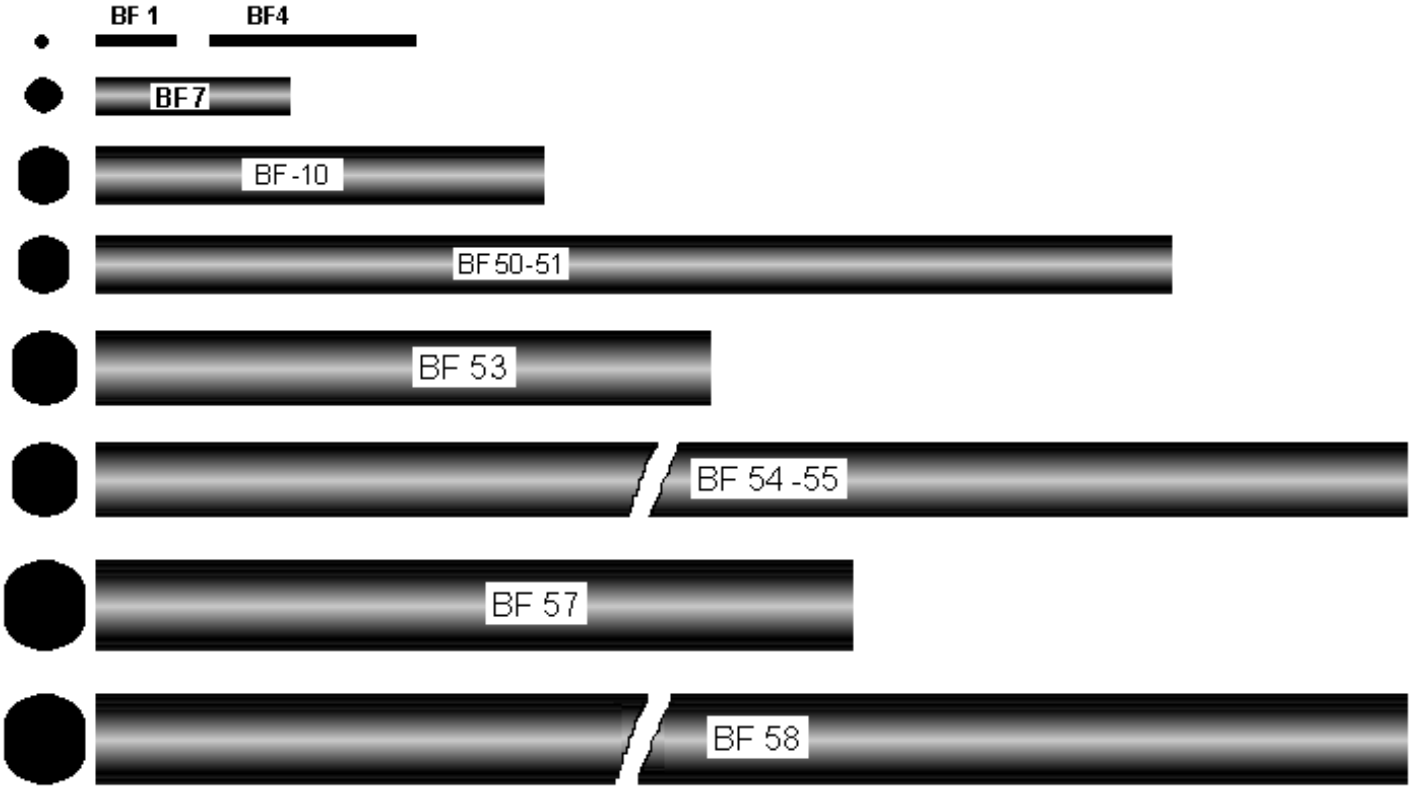
RF beads
or
filters to be inserted on power supply cables to decrease RF interferences

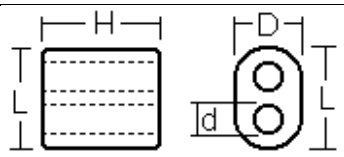


		cod.	price €
∅ e = 2 ∅ i = 1.2 Length = 0.5 mm micro bead		**PF - 1**	10 pcs = 0,70
∅ e = 2.5 ∅ i = 0.9 Length = 5 mm		**PF - 13**	10 pcs = 0,70
∅ e = 2.6 ∅ i = 1 Length = 1.6 mm Philips 4E1 μ i 15		**PF - 12**	10 pcs = 0,70
∅ e = 3 ∅ i = 0.7 Length = 4 mm 48 Ω a 3 MHz		**PF - 18**	10 pcs = 0,70
∅ e = 3.5 ∅ i = 1.3 Length = 3.2 mm **Amidon mix 43 FB43-101** **μ i** = 850 , impedance 26 Ω @ 25 MHz , 40 Ω @ 100 MHz		**PF - 2**	10 pcs = 0,80
∅ e = 3.5 ∅ i = 1.4 Length = 5 mm		**PF - 3**	10 pcs = 1,00
∅ e = 3.5 ∅ i = 1.5 Length = 1 mm TDK L6 with μ i = 1.500		**PF - 19**	10 pcs = 0,80
∅ e = 4.1 ∅ i = 2 Length = 3 mm		**PF - 6**	10 pcs = 0,70
∅ e = 4 ∅ i = 2 Length = 6 mm		**PF - 8**	5 pcs = 0,60
∅ e = 5 ∅ i = 2.3 Length = 4 mm		**PF - 9**	10 pcs = 0.80
∅ e = 5 ∅ i = 2.2 Length = 15 mm 3B1 Philips		**PF - 17**	10 pcs = 1,60
∅ e = 5 ∅ i = 0.8 Length = 10 mm high impedance 160 Ω @ 10 MHz ferrite type 3S1 Philips con μi = 4.000		**PF - 16**	10 pcs =1,20
∅ e = 5.2 ∅ i = 2 Length = 19 mm		**PF - 5**	0,20
∅ e = 5.9 ∅ i = 3 Length = 1.6 mm		**PF - 20**	10 pcs = 0,75
∅ e = 6.5 ∅ i = 3.8 Length = 2.6 mm		**PF - 21**	10 pcs = 0,85
∅ e = 6.6 ∅ i = 3.4 Length = 2.9 mm		**PF - 22**	10 pcs = 0,95
∅ e = 8 ∅ i = 4 Length =10 Siemens M25 μ i 650		**PF - 7**	0,40 finishing
e = 9.5 - i = 5.2 - L = 9.5 μi 700 Z = 30 Ω @ 25 MHz 80 Ω @ 100MHz		**PF - 23**	0,50 - 0,40
e = 9.5 - i = 4.7 - L = 12.7 μi700 Z = 5Ω @ 25 MHz 100Ω @ 100MHz		**PF - 24**	0,50 - 0,40
SMD 	it is equivalent to PF15 bead, the wire is already inserted inside so it is similar to a normal SMD component 3 x 4.6 mm, 50 Ω @ 100 MHz, Philips BDS 3-3-4.6 in ferrite 4S2, < 0.6 mΩ	**PF - 14**	0,08 € 1 - 9 pcs 0,07 € 10-30 pcs 0,06 € 31-100 pcs
	they are 2 beads with an inserted wire, it makes an RF choke impedance Z = 80 Ω @ 10 MHz , 120 Ω @ 30 MHz 150 Ω @ 100 MHz , max 7 A , Murata BL02RN2-R62	**PF - 15**	0,25 € 1 - 9 pcs 0,22 € 10 + pcs
	beads with wire Ø 3.8 x 5.2 mm , max 15 A impedance Z=12Ω @ 100MHz - 50Ω @ 300MHz - 150Ω @ 1GHz	**PF - 25**	0,20 € 1 - 9 pcs 0,15 € 10 + pcs

FERRITE RODS or FERROXCUBE			cod.	price € each 1-3 pcs	4-9 pcs	10+pcs
small ferrites used as support to build RF choke	ROUNDED ∅ 1.5 x 11 mm		BF - 1	10pz = 0,80		
	ROUNDED ∅ 1.5 x 28 mm		BF - 4	10pz = 1,20		
ROUNDED ∅ 5 x 25 mm	3B1 Philips		BF - 7	0,35	0,35	0,30
ROUNDED ∅ 8 x 61 mm			BF - 10	1,30	1,20	1,10
ROUNDED ∅ 8 x 140 mm	μi 300	28 g	BF - 50	2,50	2,20	2,05
ROUNDED ∅ 8 x 140 mm	μi 400	29 g	BF - 51	2,20	1,93	1,78
ROUNDED ∅ 10 x 80 mm	μi 400	25 g	BF - 53	1,50	1,35	1,20
ROUNDED ∅ 10 x 200 mm	μi 300	65 g	BF - 54	4,90	4,40	4,15
ROUNDED ∅ 10 x 200 mm	μi 400	65 g	BF - 55	4,10	3,70	3,50
ROUNDED ∅ 12 x 100 mm	μi 300	45 g	BF - 57	3,60	3,35	3,10
ROUNDED ∅ 12 x 200 mm	μi 300	92 g	BF - 58	6,90	6,40	5,90

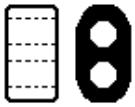
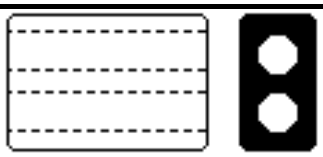
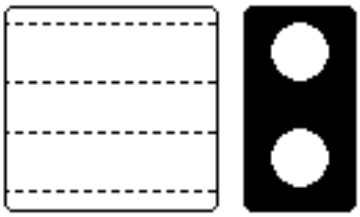
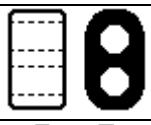
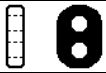
real size



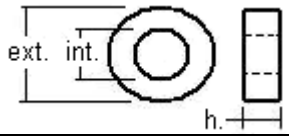


real size

The Amidon binocular ferrite cores are used with great performances in wide band transformers, both small size for signal HF - VHF - UHF and bigger power for HF - VHF.

	Amidon type	size mm D	H	L	d	μ i		cod.	price € each 1 - 10+pcs
	BN 61-2702	4,2	3,1	7	1,7	125	AL ≈ 65 μH	**FB 61-2702**	0,40 - 0,33
	BN 43-2702					850		**FB 43-2702**	0,45 - 0,38
	BN 73-2702					2500		**FB 73-2702**	0,50
 mixer H mode	BN 61-2402	4,2	6,4	7	1,7	125	AL ≈ 160 μH	**FB 61-2402**	0,55 - 0,45
	BN 43-2402					850	AL ≈ 1275 μH	**FB 43-2402**	0,60 - 0,50
	BN 73-2402					2500		**FB 73-2402**	0,65 - 0,55
 1,7 g	BN 61-1502	7,5	6,6	13,3	3,8	125		**FB 61-1502**	0,80 - 0,70
	BN 43-1502					850		**FB 43-1502**	0,75 - 0,65
	BN 73-1502					2500		**FB 73-1502**	0,80 - 0,70
	BN 61-302	7,5	10,3	13,3	3,8	125		**FB-61-302**	0,90 - 0,80
	BN 43-302	7,5	10,3	13,3	3,8	850		**FB-43-302**	0,85 - 0,75
	BN 73-302	7,5	10,3	13,3	3,8	2500		**FB-73-302**	0,85 - 0,75
 4.7g	BN 61-202	7,5	14,3	13,3	3,8	125	AL ≈ 425 μH	**FB 61-202**	0,95 - 0,85
	BN 43-202					850	AL≈ 2890 μH	**FB 43-202**	0,95 - 0,85
	BN 73-202					2500	AL≈ 8500 μH	**FB 73-202**	0,95 - 0,85
 8g	BN 61-6802	7,5	26.5	13,3	3,8	125		**FB 61-6802**	1,80 - 1,60
	BN 43-6802					850		**FB 43-6802**	1,70
	BN 73-6802					2500		**FB 73-6802**	1,90
 8g	BN 43-10402	9,5	12,7	19,5	4,8	850	max 100 - 80 W in the HF	**FB 43 - 10402**	1,50 - 1,30 ---------- in blisters of 96 pcs 1,10 € each
 18 g	BN 43-3312	9.5	25.4	19.5	4.8	850		**FB 43 - 3312**	1,90
 52g	BN 43 -7051	14.2	28.7	28.7	6.3	850		**FB 43 - 7051**	4,40
	BN 61-002	15	28.7	30	6.8	125	biggest internal diameter	**FB 61 - 002**	6,90
VARIOUS		8,3	6	14,3	3,8	8	per VHF-UHF	**FB - 01**	0,70 - 0,60
		8,3	14	14,3	3,8	10	per HF - VHF	**FB - 02**	0,75 - 0,65
 2,5 g	Siemens U60 for VHF-UHF	8,2	8	14	4	8	AL ≈ 23 μH	**FB - 05**	1,20
	TDK	6	2	9	1,9		AL ≈ 100 μH	**FB - 07**	0,30 - 0,24
	TDK	6	6	8.8	1,9			**FB - 08**	0,40 - 0,33
		2.2	2.7	3.6	0.9			**FB - 10**	0,40

We inform our kind customers that are available silver unipolar teflon coated wires useful to build inductances and transformers on toroids, see end of section J “cables”.

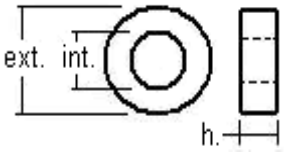


Amidon toroids are often used for high Q narrow-band tuned circuits in the specified frequency or for wide band not tuned circuits on a much larger bandwidth than specified.

color	size mm			μ i	AL μH (μH inductance for 100 turns)		cod.	price €
	∅ ext	∅ int	h		100 turns	number of turns = $\sqrt[2]{(\text{induct. value} : \text{AL}\mu\text{H}) \times 100}$		1 - 10 pcs
grey	9.4	5.2	3.2	35	120	20 KHz - 1 MHz	**T-37-3**	0,50
	11.2	5.8	4	35	180	20 KHz - 1 MHz	**T-44-3**	0,60
	12.7	7.6	4.8	35	175	20 KHz - 1 MHz	**T-50-3**	0,70
	17.3	9.5	4.8	35	195	20 KHz - 1 MHz	**T-68-3**	0.90
	20.3	12.6	6.3	35	180	20 KHz - 1 MHz	**T 80-3**	1,40
R E D	5	2.2	1.8	10	25	0.25 - 20 MHz	**T-20-2**	0,45 - 0,35
	6.3	3	2.4	10	34	0.25 - 20 MHz	**T-25-2**	0,45 - 0,35
	7.5	3.8	3.2	10	43	0.25 - 20 MHz	**T-30-2**	0,50 - 0,40
	9.4	5.2	3.2	10	40	0.25 - 20 MHz max 25 W @ 1 MHz	**T-37-2**	0,55 - 0,45
	11.2	5.8	4	10	52	0.25 - 20 MHz	**T-44-2**	0,60 - 0,50
	12.7	7.6	4.8	10	49	0.25 - 20 MHz max 40 W @ 1 MHz	**T-50-2**	0,65 - 0,55
	17.3	9.5	4.8	10	57	0.25 - 20 MHz max 30 W 80 W @ 1 MHz	**T-68-2**	0,75 - 0,65
	20.3	12.6	6.3	10	55	0.25 - 20 MHz max 60 W 120 W @ 1 MHz	**T-80-2**	0,90 - 0,80
	23.9	14.2	7.9	10	84	0.25 - 20 MHz max 100 W 12 g	**T-94-2**	1,20 - 1,10
	27	14.3	11.1	10	135	0.25 - 20 MHz max 150-300 W 23 g	**T-106-2**	1,60 - 1,40
	33	19.8	11.1	10	110	0.25 - 20 MHz 30 g	**T-130-2**	2,40 - 2,20
	40	24	14.5	10	140	0.25 - 20 MHz max 250 W , 500 W a 1MHz	**T-157-2**	3,60 - 3,40
	47	24.2	18	10	240	0.25 - 20 MHz max 400 W 115 g	**T-184-2**	6,50
	51	31.7	14	10	120	0.25 - 20 MHz max 400 W 83 g	**T-200-2**	6,00 - 5,60
	51	31.7	26	10	218	more power than T-200-2 normal type 155g	**T-200-2B**	9,90
	77.2	49	12.7	10	114	0.25 - 20 MHz 182 g	**T-300-2**	10,80
	102	57.2	16.5	10	180	0.25 - 20 MHz 475 g	**T-400-2**	21,50
white	6.3	3	2.4	9	29	1 - 25 MHz	**T-25-7**	0,70 finishing
	9.4	5.2	3.2	9	32	1 - 25 MHz	**T-37-7**	0,70
	12.7	7.6	4.8	9	43	1 - 25 MHz	**T-50-7**	0,70
Y E L L O W	3.2	1,57	1,27	8	17	3 - 40 MHz	**T-12-6**	0,45 - 0,35
	5	2.2	1.8	8	22	3 - 40 MHz	**T-20-6**	0,45 - 0,35
	6.3	3	2.4	8	27	3 - 40 MHz	**T-25-6**	0,45 - 0,35
	7.5	3.8	3.2	8	36	3 - 40 MHz	**T-30-6**	0,50 - 0,40
	9.4	5.2	3.2	8	30	3 - 40 MHz	**T-37-6**	0,55 - 0,45
	11.2	5.8	4	8	42	3 - 40 MHz	**T-44-6**	0,65 - 0,55
	12.7	7.6	4.8	8	40	3 - 40 MHz	**T-50-6**	0,75 - 0,65
	17.3	9.5	4.8	8	47	3 - 40 MHz	**T-68-6**	0,95 - 0,80
	20.3	12.6	6.3	8	45	3 - 40 MHz 6 g	**T-80-6**	1,40 - 1,25
	23.9	14.2	7.9	8	70	3 - 40 MHz	**T-94-6**	1,80 - 1,60
	27	14.3	11.1	8	116	3 - 40 MHz max 150-300 W 23 g	**T-106-6**	2,90 - 2,70
	33	19.8	11.1	8	96	3 - 40 MHz 30 g	**T-130-6**	3,70 - 3,50
	40	24	14.5	8	115	3 - 40 MHz 56 g	**T-157-6**	6,20 - 5,80
	47	24.2	18	8	195	3 - 40 MHz 115 g	**T-184-6**	11,30
	51	31.7	14	8	100	3 - 40 MHz 83 g	**T-200-6**	10,50
black	7.5	3.8	3.2	6	25	15 - 100 MHz	**T-30-10**	0,60
	9.4	5.2	3.2	6	26	15 - 100 MHz	**T-37-10**	0,60
	11.2	5.8	4	6	33	15 - 100 MHz	**T-44-10**	0,90
	12.7	7.6	4.8	6	31	15 - 100 MHz	**T-50-10**	1,00
	17.3	9.5	4.8	6	32	15 - 100 MHz 3,5 g	**T-68-10**	1.20
	20.3	12.6	6.3	6	32	15 - 100 MHz 5,5 g	**T-80-10**	1,60
	23.9	14.2	7.9	6	58	15 - 100 MHz 11 g	**T-94-10**	2,30

follows Amidon toroids

color	size mm ∅ ext	∅ int	h	μ i	AL μH (μH inductance for 100 turns) 100 turns	number of turns = $^{2}\sqrt{(\text{induct. value} : AL\mu H) \times 100}$		cod.	price € 1 - 10 pcs
green white	6.3	3	2.4	4	12	30 - 250 MHz		T-25-12	0,40 finishing
	7.5	3.8	3.2	4	16	30 - 250 MHz		T-30-12	0,40
	9.4	5.2	3.2	4	15	30 - 250 MHz		T-37-12	0,50
	11.2	5.8	4	4	18.5	30 - 250 MHz		T-44-12	0,55
	12.7	7.6	4.8	4	18	30 - 250 MHz		T-50-12	0,60
	17.3	9.5	4.8	4	21	30 - 250 MHz		T-68-12	0,80 finishing
	20.3	12.6	6.3	4	22	30 - 250 MHz		T-80-12	1,00
	23.9	14.2	7.9	4	30	30 - 250 MHz		T-94-12	see T94-17
yellow blue	**mix 17 = mix 12** ---- mix 17 will substitute mix 12								
	7.5	3.8	3.2	4	16	20 - 200 MHz		T-30-17	0,40
	9.4	5.2	3.2	4	15	20 - 200 MHz		T-37-17	0,50
	11.2	5.8	4	4	18.5	20 - 200 MHz		T-44-17	0,65
	12.7	7.6	4.8	4	18	20 - 200 MHz		T-50-17	0,80
	17.3	9.5	4.8	4	21	20 - 200 MHz		T-68-17	1,20
	20.3	12.6	6.3	4	22	20 - 200 MHz		T-80-17	1,50
	23.9	14.2	7.9	4	29	30 - 250 MHz	9 g	T-94-17	1,60
	27	14.3	11.1	4	51	20 - 200 MHz		T-106-17	2,90
	33	19.8	11.1	4	40	20 - 200 MHz		T-130-17	3,50
	40	24	14.5	4	53	20 - 200 MHz	45 g	T-157-17	5,90
brown	9.4	5.2	3.2	1	6	this is a "not magnetic" mix μ i = 1 suitable for tuned circuits from 50 to 350 MHz or for wide band up to 1 GHz very good thermal stability		T-37-0	0,35
	11.2	5.8	4	1	6.5			T-44-0	0,40
	12.7	7.6	4.8	1	6.4		1 g	T-50-0	0,50
	17.3	9.5	4.8	1	7.5		2 g	T-68-0	0,60
	20.3	12.6	6.3	1	8.5			T-80-0	0,70
	23.9	14.2	7.9	1	10.6			T-94-0	1,00
	27	14.3	11.1	1	19		max 150 W	T-106-0	1,30
	33	19.8	11.1	1	15		14 g	T-130-0	1,60
	40	24	14.5	1	19			T-157-0	4,30



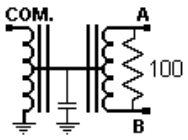
These Amidon toroids are often used for broadband not tuned circuits, for example as transformers in Norton circuits, as component for power splitters, dividers or combiners, HF balun, for input or output matching, on HF - VHF power amplifiers, on high impedance IF filters, etc..
Moreover, for their characteristics of medium-high inductance, they are also used to build decoupling choke coils, power supply EMI filters, etc.. because they could reach high inductance values.

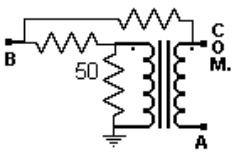
size mm ∅ ext	∅ int	h	μ i	AL mH (mH inductance for 1000 turns) number of turns = $\sqrt[2]{(\text{induct. value} : \text{ALmH}) \times 1000}$		cod.	price € each 1 - 10 pcs
			40				
12.7	7.1	4.9		22		**FT-50-67**	0,95 - 0,90
6	3	1.6	125	25		**FT-23-61**	0,50 - 0,43
9.5	4.8	3.3		55		**FT-37-61**	0,60 - 0,50
12.7	7.1	4.9		68		**FT-50-61**	0,80 - 0,70
21	13.2	6.3		75		**FT-82-61**	1,30 - 1,15
29	19	7.5		80	11 g	**FT-114-61**	2,30 - 2,05
35.6	23	12.7		140		**FT-140-61**	4,00
61	35.5	12.7		170	suitable for HF high power balun up to 1 KW, it is particulary suggested for high part of HF frequencies to 60 MHz 130 g	**FT-240-61**	18,70
6	3	1.6	850	158		**FT-23-43**	0,50 - 0,43
9.5	4.8	3.3		350		**FT-37-43**	0,60 - 0,50
12.7	7.1	4.9		440	2 g	**FT-50-43**	0,80 - 0,70
21	13.2	6.3		470		**FT-82-43**	1,30 - 1.15
29	19	7.5		510	11 g	**FT-114-43**	2,30 - 2,10
35.6	23	12.7		885	38 g	**FT-140-43**	3,80 - 3,50
61	35.5	12.7		1075	suitable for HF high power balun up to 1 KW, it is particulary suggested for low medium part of HF frequencies 130 g	**FT-240-43**	11,50
9.5	4.8	3.3	2.000	880		**FT-37-77**	0,60 - 0,50
12.7	7.1	4.9		1100		**FT-50-77**	0,80 - 0,70
21	13.2	6.3		1175		**FT-82-77**	1,40 - 1,30
9.5	4.8	3.3	5.000	2200		**FT-37-75**	0,75 - 0,65
12.7	7.1	4.9		2725		**FT-50-75**	0,90 - 0,80

EXAMPLES of HF – VHF hybrid couplers made with Amidon toroids FT….- 43 series

Dividers-combiners @ - 3 dB

with 2 pcs of FT…-43 toroids
1 - 30 MHz high insulation
very good return loss

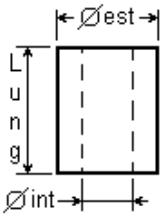




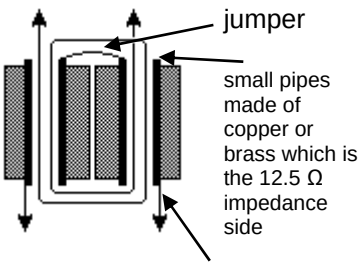
Hybrid @ - 6 dB

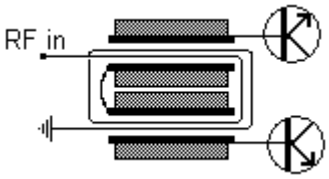
with 1 pc of FT…-43 toroid
1 - 200 MHz high insulation
adequate return loss

We inform our kind customers that are available silver plated unipolar wires with teflon insulation useful to build inductances and transformers on toroids,
see end of section J “cables”.

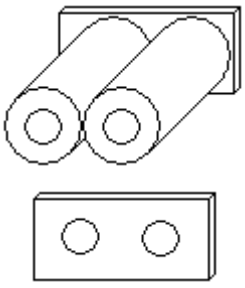
	size mm ∅ ext	∅ int	h	μ i	AL		cod.	price € each 1 - 10 pz
Toroids various types	6.3	3	3.2	12		for 50-200MHz resonant circuits for wide band circuits up to 450MHz	**TF - 2**	0,30
	6.3	3	3.2	50		for 5 - 50 MHz resonant circuits for wide band circuits up to 200MHz	**TF - 3**	0,30
	6.5	3.8	2.3	100		Philips 4C6	**TF - 4**	0,40
	8	3	3.5				**TF - 5**	0,30
	10	5.6	4				**TF - 6**	0,30
	9.5	5.5	3.5	5.000	1.000	Philips 3E2 azure , max 500 KHz	**TF - 7**	0,40
	4.5	2	1.5			Philips 3H2 grey	**TF - 8**	0,40
	6	3	1.6				**TF - 10**	0,25
	8	5	5	10		Neosid F100b , for 20 - 200MHz resonant circuits	**TF - 11**	0,30
	9.4	5.5	3.4	100	30	for HF , Philips 4C65 (= FT 37-61)	**TF - 12**	0,45 - 0,40
	13	7.4	4.8	90	33	TN12-8-4.4-2P90 Philips ferrite type 2P90 dark brown	**TF - 14**	0,40 - 0,35 0,20 € each for 500 pcs pack
HF power toroids or big size choke	9.5	4.7	12.7	700			**TF - 91**	0,50 - 0,40
	9.5	5.2	9.5	700			**TF - 92**	0,50 - 0,40
	18.2	9.7	28	700		25 g	**TF - 93**	1,20 - 1,05
	12.3	4.9	25.4	850			**TF - 94**	0,60
	8	4	10	650		small power Siemens M25 type	**TF - 95**	0,40 finishing
	12	5.1	25.3			HF high performances	**TF - 97**	1,20
	26	13	28	700		52 g	**TF - 99**	1,90 1,70 € each for 25 pcs pack

1:1 scale





typical application as transformer for HF input or output



mounting example

p.c.b. to keep togheter the ferrites

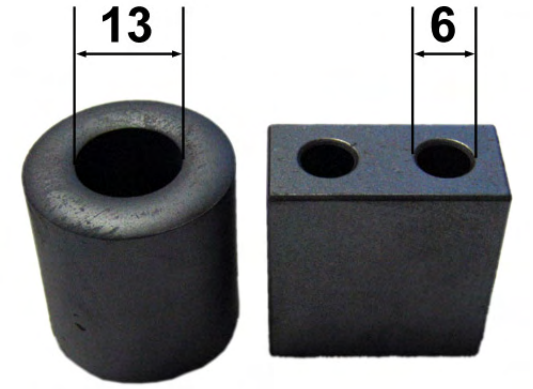
EXAMPLES OF POWER HF - VHF TRANSFORMERS

We inform our kind customers that are available silver plated unipolar wires with teflon insulation useful to build inductances and transformers on toroids,
see end of section J “cables”.

Skilled and unusual process for to build HF power transformer

Following the instructions below it is possible to build a very good HF power transformers without using difficult to find brass or copper pipes . This technique is suitable for almost eny toroid hole size. The instructions can be used for high or medium power RF transformers using single or binocular ferrites. In particular this method is useful for 1:4, 1:9, 1:16 etc… transformers where the 1 side uses the technique show and the 4, 9, 16 etc side is made using further turns inserted into the inside of the shield .

Save from RG213, 214 etc... coaxial cable 10 cm of its shield, can be used also RG58, 59, 142 etc.. for ferrites with small holes.



Fot these 2 ferrites (see picture), even if they have a very different size holes, we used the same shield saved from RG213
because the size of the
shield is not critical.

Insert the shield into the ferrite and into the shield insert any round object to prevent the shield from deforming .

Use an awl to widen the holes at the ends of the shield, to insert any further cables if needed.
When finished, as you can see in the picture , insert the teflon wire into the shield for the second winding completing the transformer.