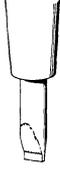
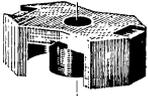
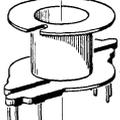
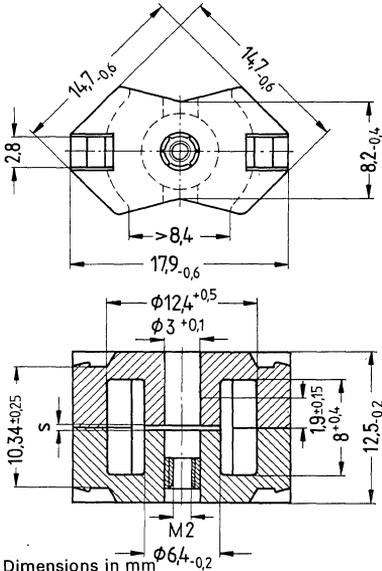


Individual parts	Part No.	Page
 <p>Adjusting screw driver (for assembly only)</p>	B63399	340, fig. 4
<p>Matching handle</p>	B63399	341, fig. 6
 <p>Adjusting screw</p>	B65659	296
 <p>Core</p>	B65807	292
 <p>Clamps</p>	B65808	293
 <p>Insulation washer for coil</p>	B65808	293
 <p>Coil formers with 1 or 2 sections, 4, 5, or 6 pins</p>	B65808	293
 <p>Core</p>	B65807	292
 <p>Threaded sleeve</p>	B65808	296
 <p>Insulating washer for double clad PC boards</p>	B65808	293
<p>Additionally available:</p>		
<p>Coil former with bent solder terminals (for litz wires)</p>	B65808	294
<p>Coil former for power trans- formers (in preparation)</p>	B65808	295
<p>Centering pin</p>	B65808	296

RM-6 cores complying with DIN 41 980 or IEC publication 431.
 RM-6 cores are also available without center hole for use in transformers.



Dimensions in mm

Magnetic characteristics

	with center hole	without center hole	
Core factor $\Sigma //A =$	0.86	0.78	mm ⁻¹
Effective length $l_e =$	26.9	28.6	mm
Effective area $A_e =$	31.3	36.6	mm ²
Min. core cross section ¹⁾ $A_{min} =$	-	31	mm ²
Effective volume $V_e =$	840	1050	mm ³
Approx. weight/set	4.7	5.1	g

RM core

Ordering code

without threaded sleeve	B65807-C.....-.....
with threaded sleeve (fig.)	B65807-N.....-.....
without center hole	B65807-J.....-.....

A _L value	tolerance	SIFERRIT material	Total air gap s in mm approx.	Effective permeability μ_e	Ordering code (PU: 500 sets)
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Gapped

40	± 3 % ≙ A	K 1	0,80	27,4	B65807-→0040-A001	
63			M 33	0,60	43,2	B65807-→0063-A033
100				0,38	68,5	B65807-→0100-A033
160		N 58	0,21	110	B65807-→0160-A058	
200			0,16	137	B65807-→0200-A058	
250			0,11	171	B65807-→0250-A058	
160			N 48	0,22	110	B65807-→0160-A048
200		0,17		137	B65807-→0200-A048	
250		0,12		171	B65807-→0250-A048	
315		0,08		216	B65807-→0315-A048	
400	0,05	274		B65807-→0400-A048		
1000	± 10 % ≙ K		0,006	685	B65807-C1000-K048	

Ungapped

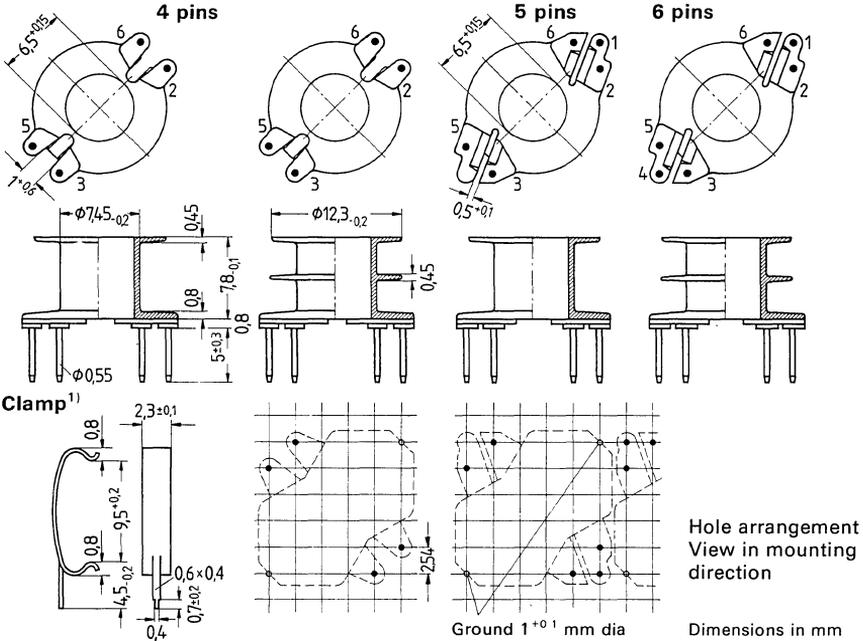
120	+30 -20 % ≙ R	K 1		82	B65807-C0000-R001	
1700			N 47		1160	B65807-C0000-R047
2000			N 48		1370	B65807-C0000-R048
3100 ²⁾			N 41		1920	B65807-J0000-R041
4300 ²⁾			N 30		2670	B65807-J0000-R030
6200 ²⁾			T 35		3850	B65807-J0000-R035
8600 ²⁾	+40 -30 % ≙ Y	T 38		5340	B65807-J0000-Y038	
8600 ²⁾	+80 -0 % ≙ U	T 38		5340	B65807-J8600-U638	

¹⁾ Necessary for the calculation of the max. flux density
²⁾ without center hole
 ▼ to be preferred

Coil formers, insulating washers, and clamps B 65 808

Glass-fiber reinforced thermosetting plastic **coil formers** with 4, 5, or 6 terminal pins, complying with IEC publication 431 (DIN 41 981), suitable for automatic winding machines, flame-retardant in accordance with UL 94 V-0. Permissible soldering temperature max. 400 °C/752 °F, 2 sec (also refer to page 85, para. 8.2). For winding details refer to page 68.

Spring steel **clamps** (tinned) with ground terminal.



Hole arrangement
View in mounting
direction

Ground 1^{+0.1} mm dia

Dimensions in mm

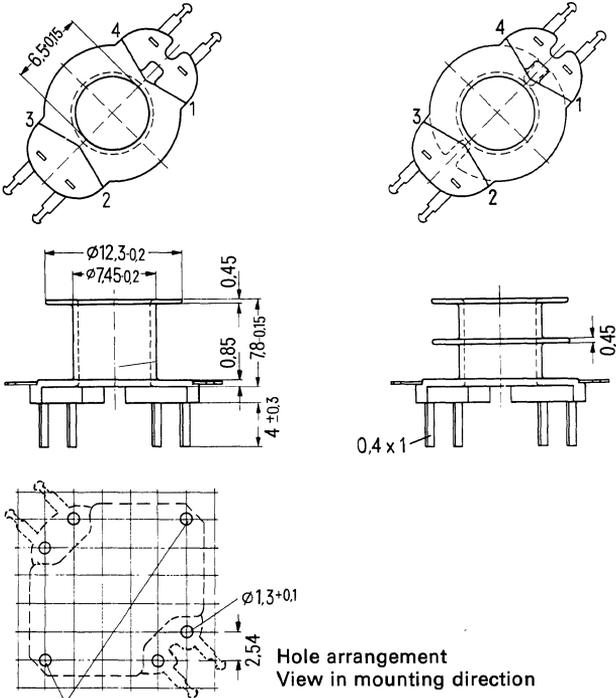
Coil former Number of sections	Useful winding cross section A_N		Average length of turn l_N mm	A_R value ²⁾ $\mu\Omega$	Approx. weight g	Number of pins	Ordering code (PU: 500)
	of one section mm ²	total mm ²					
1	15	15	30	69	0,4	4	B65808-A1004-D001
						5	B65808-A1005-D001
						6	B65808-A1006-D001
2	7	14	30	73	0,6	4	B65808-A1004-D002
						5	B65808-A1005-D002
						6	B65808-A1006-D002
Clamp (approx. weight 0.12 g; ordering code for each clamp, two required)							B65808-C2002-X000
Insulating washer for double clad PCBs							B65808-B2005-X000
Insulating washer between core and coil							B65808-A5000-X000
Drawing details for the assembly of mounting devices							C61407-A3-A2

¹⁾ Pressure per clamp pair: 45 ... 60 N.

²⁾ $R_{Cu} = A_R \cdot N^2$ (dc resistance = $A_R \cdot$ number of turns²)

Coil formers B 65 808–J...

Glass-fiber reinforced polyterephthalate **coil formers** with special solder terminals for litz wires, flame-retardant in accordance with UL 94 V-0. Permissible soldering temperature max. 400 °C/ 752 °F, 2 sec (refer to page 85, para. 8.2).
For winding details refer to page 68.



Ground 1^{+0.1} dia

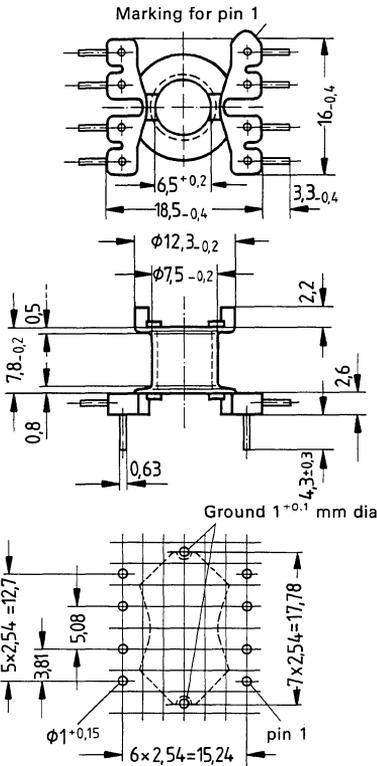
Dimensions in mm

Number of sections	Useful winding cross section A_N mm ²	Average length of turn l_N mm	A_R value ¹⁾ $\mu\Omega$	Approx. weight g	Number of pins	Ordering code (PU: 500)
1	15	30	69	0.5	4	B65808–J1003–T001
2	14		73	0.65	4	B65808–J1003–T002

¹⁾ $R_{Cu} = A_R \cdot N^2$ (dc resistance = $A_R \cdot$ number of turns²)

Coil former for power transformers B 65 808 (in preparation)

Glass-fiber reinforced polyterephthalate coil former with 8 terminal pins, flame-retardant in accordance with UL 94 V-0. Permissible soldering temperature max. 400 °C/752 °F, 2 sec (also refer to page 85, para. 8.2). For winding details refer to page 68.



Hole arrangement
View in mounting direction
(Intermediate spacing should be considered!)

Dimensions in mm

Number of sections	Useful winding cross section		Average length of turn l_N mm	A_R value ¹⁾ $\mu\Omega$	Approx. weight g	Number of pins	Ordering code (PU: 200)
	A_N of one section mm ²	total mm ²					
1	15	15	30	6	2	8	B65808-A1508-T001

¹⁾ $R_{Cu} = A_R \cdot N^2$ (dc resistance = $A_R \cdot$ number of turns²)

Adjusting devices B 65 659

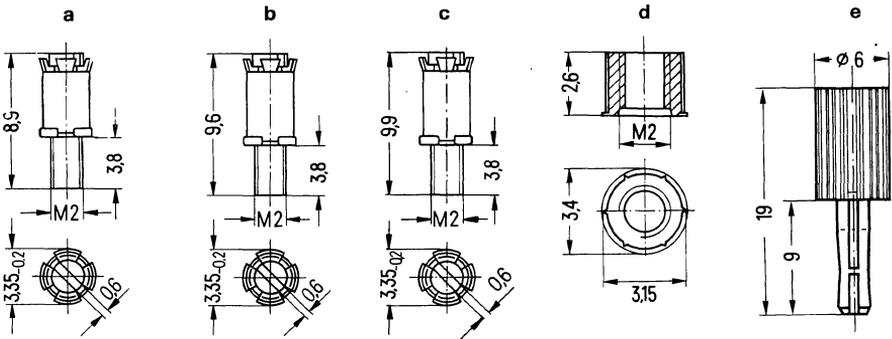
Adjusting screw (a, b, c) B65659-E0...-X..., consisting of a SIFERRIT tube core on which a glass-fiber reinforced polyterephthalate thread is molded and a spring crown serving as core brake;

fits:

glass-fiber reinforced 11 polyamide **threaded sleeve** (d) B65808-L3002-X000

Centering pin (e) B65808-A2008-X000 as mounting aid for RM core centering.

Adjusting screw driver B63399-B0004-X000

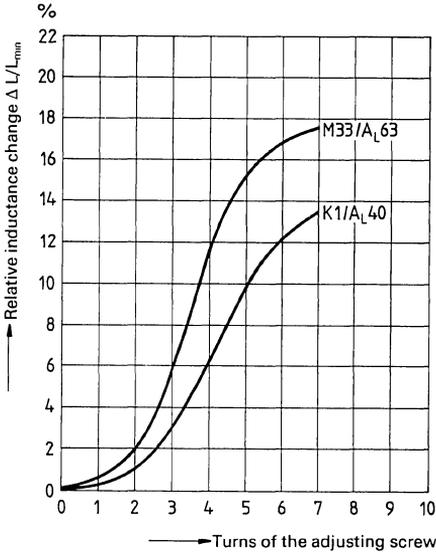


Dimensions in mm

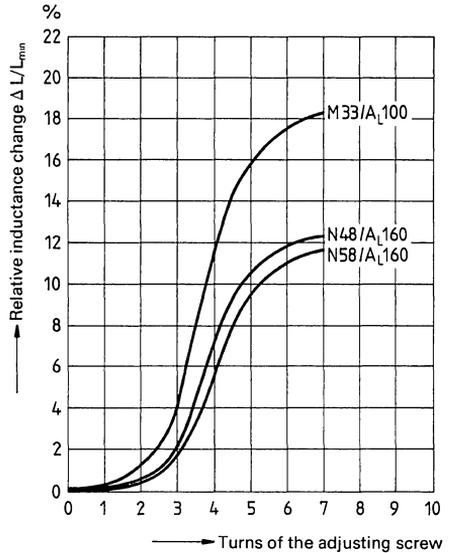
RM-6 core B65807		Adjusting screw				
Material	A _L value nH	Part	Tube core dia x length	Material	Color code	Ordering code (PU: 500)
K 1	40	a	2,6 x 3,7	Si 1	white	B65659-E0001-X101
	63				brown	B65659-E0004-X101
M 33	100	c	2,82 x 4,4			
	160	a	2,6 x 3,7	K 1	green	B65659-E0001-X001
N 58	200				red	B65659-E0001-X023
	N 48	250	b	2,75 x 4,4		black
N 48		200	a	2,6 x 3,7	N 22	red
	250	black				B65659-E0003-X023
	400	yellow				B65659-E0004-X023

Inductance adjustment curves

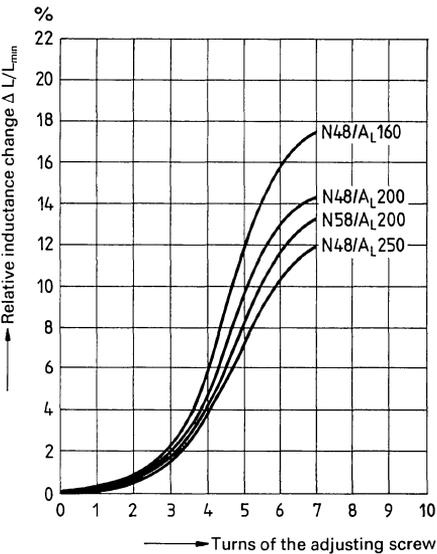
Adjusting screw B65659-E0001-X101
color code white



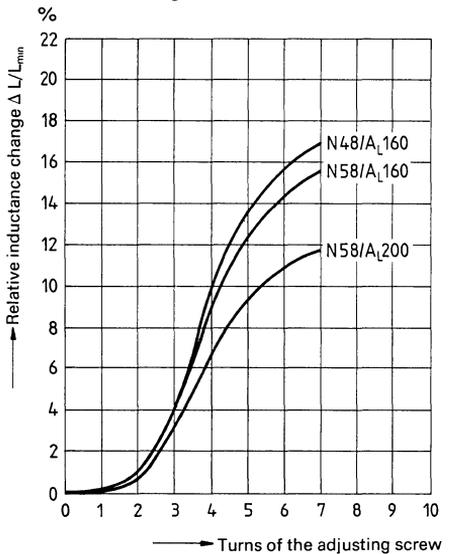
Adjusting screw B65659-E0004-X101
color code brown



Adjusting screw B65659-E0001-X023
color code red



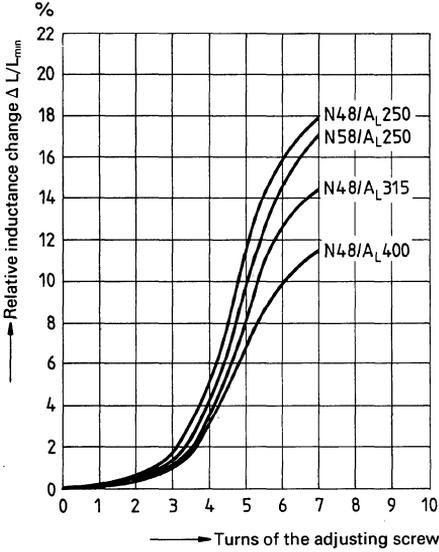
Adjusting screw B65659-E0001-X001
color code green



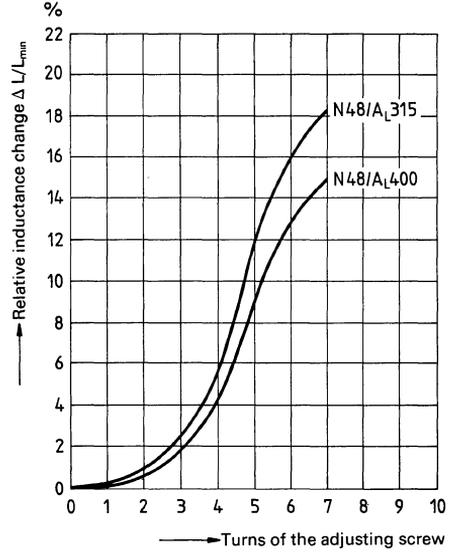
0 ≙ at least one turn engaged.

Inductance adjustment curves

Adjusting screw B65659-E0003-X023
color code black



Adjusting screw B65659-E0004-X023
color code yellow

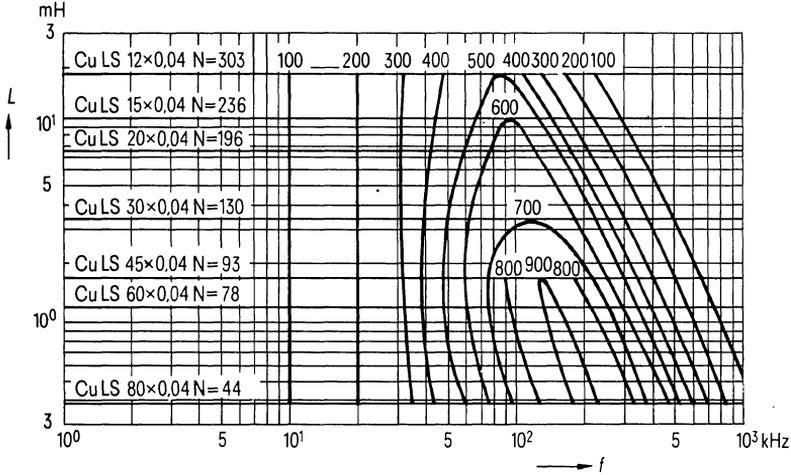


0 $\hat{=}$ at least one turn engaged.

ISO-Q curves

Material N 58

1-section winding with RF litz wire
 Flux density in the core $\hat{B} < 1$ mT

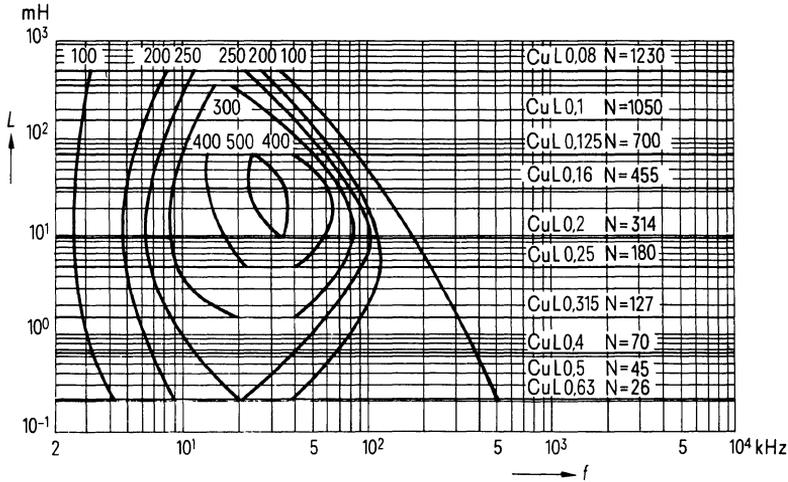


N 58
 $A_L = 200$ nH

ISO-Q curves

Material N 48

1-section winding with enamel copper wire
 Flux density in the core $\hat{B} < 1$ mT



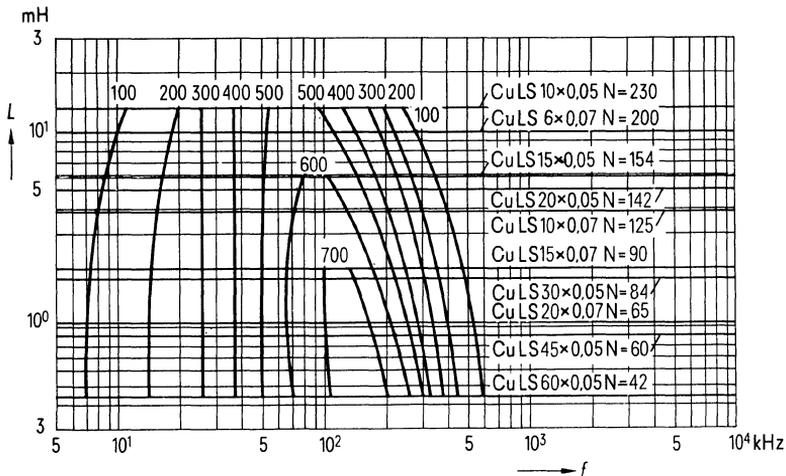
N 48
 $A_L = 315$ nH

ISO-Q curves

Material N 48

1-section winding with RF litz wire

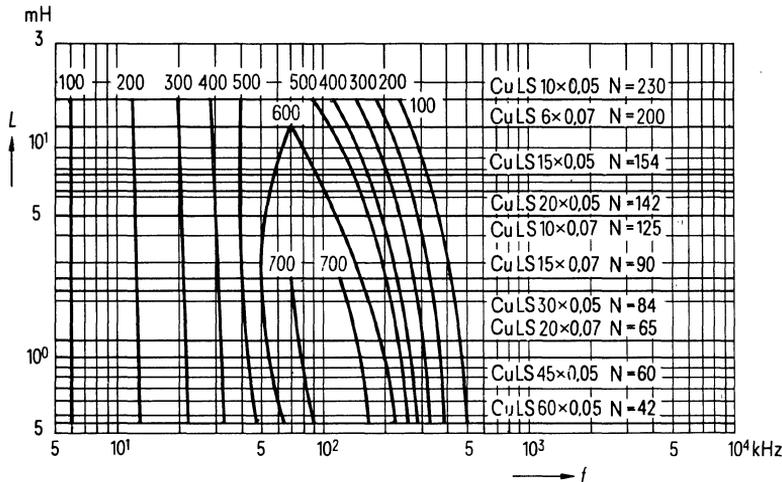
Flux density in the core $\hat{B} < 1$ mT



N 48
 $A_L = 250$ nH

1-section winding with RF litz wire

Flux density in the core $\hat{B} < 1$ mT



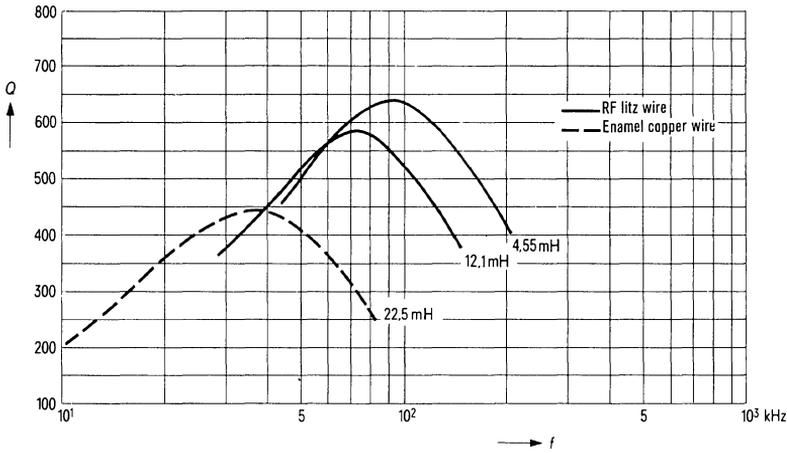
N 48
 $A_L = 315$ nH

Q factor characteristics

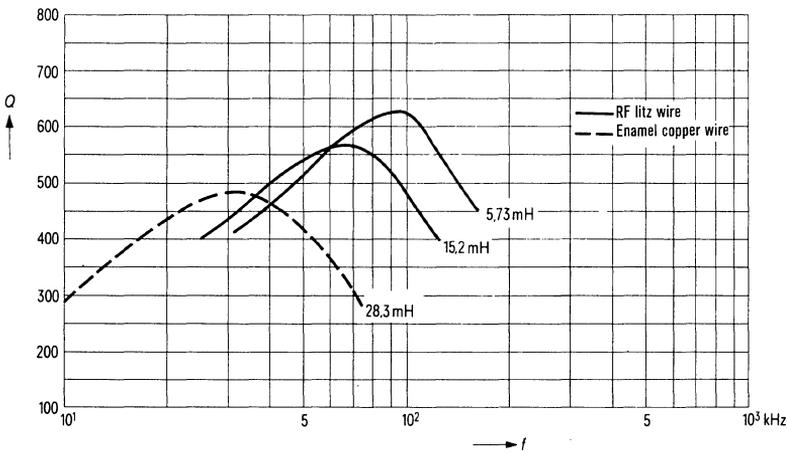
Material N 48

L (mH) for		Turns	Wire; RF litz wire	Number of sections
$A_L = 250$ nH	$A_L = 315$ nH			
22,5	28,3	300	0,20 CuL	1
12,1	15,2	220	6 x 0,07 CuLS	1
4,55	5,73	135	20 x 0,05 CuLS	1

Flux density
in the core
 $\hat{B} < 2$ mT



N 48
 $A_L = 250$ nH
(typical values)



N 48
 $A_L = 315$ nH
(typical values)

Q factor characteristics

Material M 33

L (μH) for		Turns	RF litz wire	Number of sections	ϕ^* mm
$A_L = 63 \text{ nH}$	$A_L = 100 \text{ nH}$				
534	847	92	45 x 0,04 CuLS	1	—
414	657	81	45 x 0,04 CuLS	2	—
108	168	41	45 x 0,04 CuLS	2	9,8
49	75	27	45 x 0,04 CuLS	2	10,6

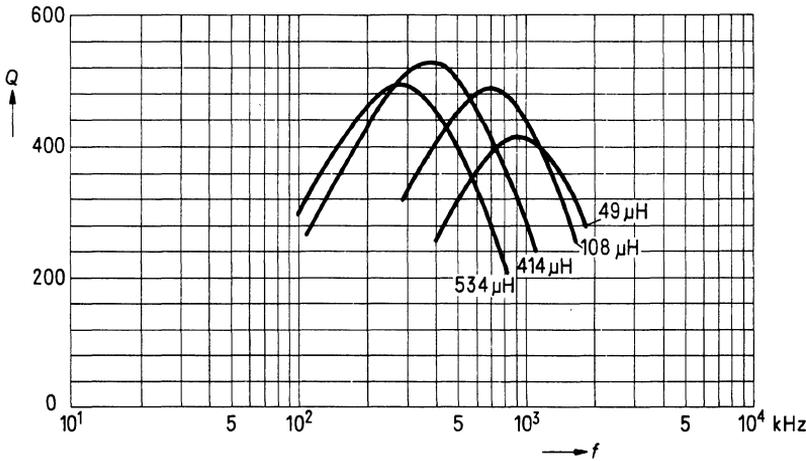


Pad of polystyrene tape up to the diameter ϕ^* (valid for all sections)

Flux density in the core $\hat{B} < 2 \text{ mT}$

M 33

$A_L = 63 \text{ nH}$
(typical values)



M 33

$A_L = 100 \text{ nH}$
(typical values)

