

B65813

- ### Magnetic characteristics (per set)

Approx. weight (per set)

Technical drawing of a mechanical part, showing a top view and a cross-section view.

Top View Dimensions:

- Overall width: $24,7_{-1,1}$
- Overall height: $24,7_{-1,1}$
- Distance from top edge to center of top slot: 5
- Distance from bottom edge to center of bottom slot: $13,5_{-0,5}$
- Distance between centers of top and bottom slots: $10,9_{min}$
- Overall width of the central section: $28,5_{-1,3}$

Cross-section View Dimensions:

- Overall width: $\varnothing 21,2_{+0,9}$
- Overall height: $18,7_{-0,2}$
- Distance from top edge to center of top slot: $16,2 \pm 0,25$
- Distance from bottom edge to center of bottom slot: $3,2 \pm 0,15$
- Distance between centers of top and bottom slots: $12,4_{+0,6}$
- Distance from top edge to center of top slot (alternative): S
- Thread specification: $M3$
- Distance from bottom edge to center of bottom slot: $\varnothing 5,4_{+0,2}$
- Distance from bottom edge to center of bottom slot: $\varnothing 10,9_{-0,4}$

FRM0175-N

Material	A _L value nH	s approx. mm	μ _e	Ordering code ¹⁾ -D with center hole -N with threaded sleeve -J without center hole
N48	400 ± 3 % 630 ± 3 %	0,21 0,13	160 250	B65813-+400-A48 B65813-+630-A48
N41	250 ± 3 % 630 ± 5 % 1600 ± 10 %	0,44 0,13 0,04	90 226 573	B65813-J250-A41 B65813-J630-J41 B65813-J1600-K41

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Ungapped

Material	A_L value nH	μ_e	A_{L1min} nH	P_V W/set	Ordering code -J w/o center hole
N30	7600 + 30/- 20 %	2720			B65813-J-R30
T38	16000 + 40/- 30 %	5730			B65813-J-Y38
N49	2900 + 30/- 20 %	1040	1680	< 0,75 (50 mT, 500 kHz, 100 °C)	B65813-J-R49
N87	4200 + 30/- 20 %	1500	2550	< 2,30 (200 mT, 100 kHz, 100 °C)	B65813-J-R87
N97 ¹⁾	4200 + 30/- 20 %	1500	2550	< 2,00 (200 mT, 100 kHz, 100 °C)	B65813-J-R97
N41	5500 + 30/- 20 %	1960	2550	< 0,80 (200 mT, 25 kHz, 100 °C)	B65813-J-R41

1) Preliminary data

Coil former

Material: GFR thermosetting plastic (UL 94 V-0, insulation class to IEC 60085:

H $\triangleq$ max. operating temperature 180 °C), color code black

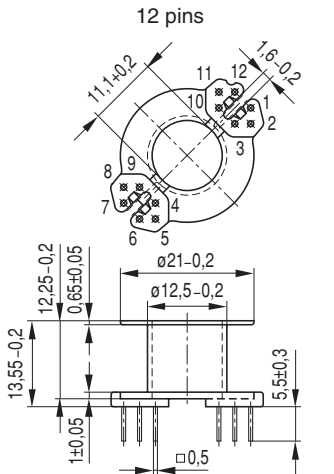
Solderability: to IEC 60068-2-20, test Ta, method 1 (aging 3): 235 °C, 2 s

Resistance to soldering heat: to IEC 60068-2-20, test Tb, method 1B: 350 °C, 3,5 s

Winding: see "Processing Notes", page 153

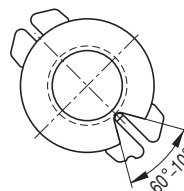
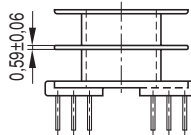
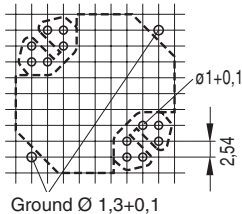
Squared pins. For matching clamp and insulating washers see page 240.

Sections	A_N mm ²	l_N mm	A_R value $\mu\Omega$	Pins	Ordering code
1	41,5	52	43	8 10 11 12	B65814-N1008-D1 B65814-N1010-D1 B65814-N1011-D1 B65814-N1012-D1
2	39	52	46	8	B65814-N1008-D2



Version	Pins omitted
8 pins	2, 5, 8, 11
10 pins	2, 11
11 pins	9

Hole arrangement
View in
mounting direction



FRM0271-W

Coil former for power applications

Optimized for automatic winding

Material: GFR polyterephthalate (UL 94 V-0, insulation class to IEC 60085:

F $\triangleq$ max. operating temperature 155 °C), color code black

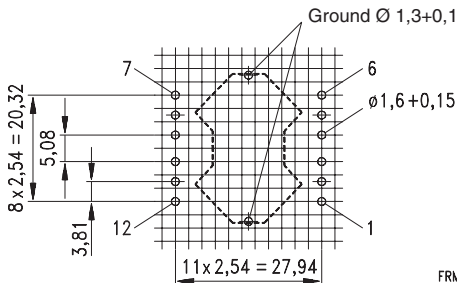
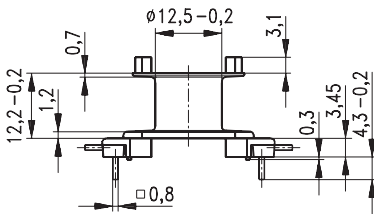
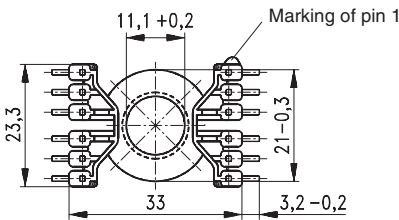
Solderability: to IEC 60068-2-20, test Ta, method 1 (aging 3): 235 °C, 2 s

Resistance to soldering heat: to IEC 60068-2-20, test Tb, method 1B: 350 °C, 3,5 s

Winding: see "Processing Notes", page 153

For matching clamp and insulating washer 1 see page 240

Sections	A_N mm ²	l_N mm	A_R value $\mu\Omega$	Pins	Ordering code
1	41,5	52	43	12	B65814-C1512-T1



Hole arrangement
View in mounting direction
(Note half pitch!)

FRM0225-T

Clamp

- With ground terminal, made of stainless spring steel (tinned), 0,45 mm thick
- Solderability to IEC 60068-2-20, test Ta, method 1 (aging 3): 235 °C, 2 s
- Also available as strip clamp on reels

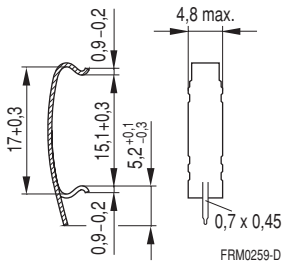
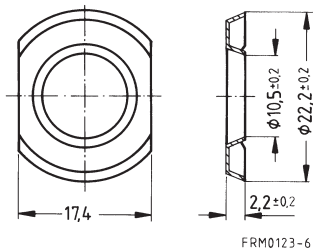
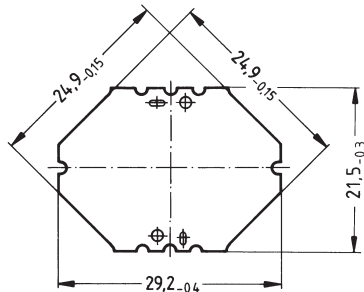
Insulating washer 1 between core and coil former

- For tolerance compensation and for insulation
- Made of polycarbonate (UL 94 V-0, insulation class to IEC 60085: E $\geq$ 120 °C), 0,1 mm thick

Insulating washer 2 for double-clad PCBs

- Made of polycarbonate (UL 94 V-0, insulation class to IEC 60085: E $\geq$ 120 °C), 0,3 mm thick

	Ordering code
Clamp (ordering code per piece, 2 are required)	B65814-A2203
Insulating washer 1 (reel packing, PU = 1 reel)	B65814-B5000
Insulating washer 2 (bulk)	B65814-B2005

Clamp

Insulating washer 1

Insulating washer 2


FRM0124-E

RM 10	B63399
Accessories	B65679

Adjusting screw

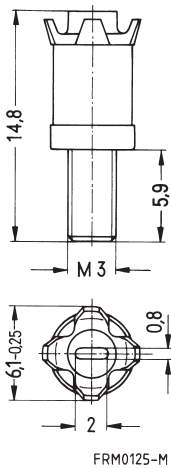
■ Tube core with thread and core brake made of GFR polyterephthalate

Plastic **adjusting screwdriver** (not shown)

Plastic **handle** for adjusting screwdriver (not shown)

Core RM 10		Adjusting screw			Min. adjusting range %	Ordering code
Material	A _L value nH	Tube core Ø × length mm	Mate- rial	Color code		
N 48	400	4,55 × 6,3	N 22	red	10	B65679-E3-X22
	400	4,98 × 6,3	N 22	black	18	B65679-E2-X22
	630				11	
	630	5,15 × 6,3	N 22	white	17	B65679-E1-X22
Adjusting screwdriver						B63399-B1
Handle						B63399-B5

Adjusting screw



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