

RM 7
Core
B65819

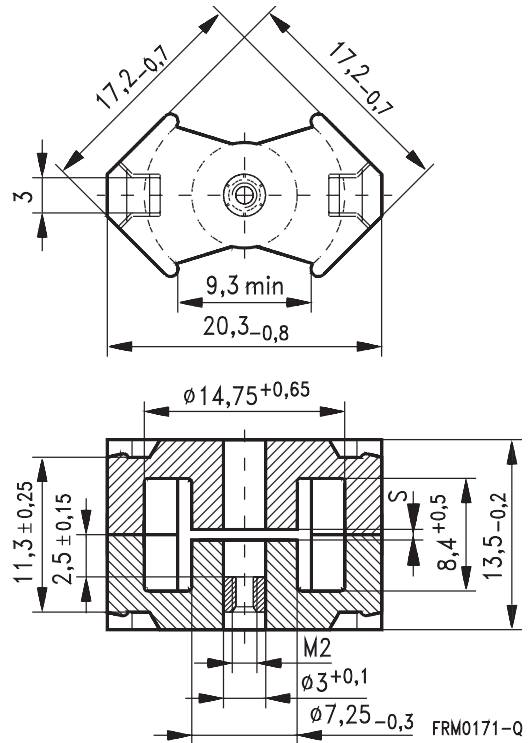
- In accordance with IEC 60431
- Core without center hole for transformer applications
- RM cores are supplied in sets

Magnetic characteristics (per set)

	with center hole	without center hole	
$\Sigma l/A$	0,74	0,7	mm ⁻¹
l_e	29,8	30,4	mm
A_e	40	43	mm ²
A_{min}	—	39	mm ²
V_e	1 200	1 340	mm ³

Approx. weight (per set)

m	6,5	7,2	g


Gapped

Material	A_L value nH	s approx. mm	μ_e	Ordering code ¹⁾ -A with center hole -N with threaded sleeve -J without center hole
N41	160 ± 5 %	0,30	89	B65819-J160-J41
	250 ± 5 %	0,18	139	B65819-J250-J41
N48	250 ± 3 %	0,16	147	B65819-+250-A48
	315 ± 3 %	0,12	186	B65819-+315-A48

1) Replace the + by the code letter "A" or "N" for the required version.

Ungapped

Material	A_L value nH	μ_e	A_{L1min} nH	P_V W/set	Ordering code -J w/o center hole
N30	5000 + 30/- 20 %	2780			B65819-J-R30
T38	10000 +40/- 30 %	5570			B65819-J-Y38
N49	1900 + 30/- 20 %	1070	1070	< 0,22 (50 mT, 500 kHz, 100 °C)	B65819-J-R49
N87	2700 + 30/- 20 %	1510	1600	< 0,77 (200 mT, 100 kHz, 100 °C)	B65819-J-R87
N97 ¹⁾	2700 + 30/- 20 %	1510	1600	< 0,58 (200 mT, 100 kHz, 100 °C)	B65819-J-R97

1) Preliminary data

Coil former

Material: GFR thermosetting plastic; UL 94 V-0, insulation class to IEC 60085:
 B65820-B: F $\hat{=}$ max. operating temperature 155 °C); color code green
 B65820-W: H $\hat{=}$ max. operating temperature 180 °C); color code black

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

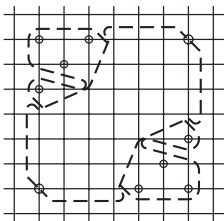
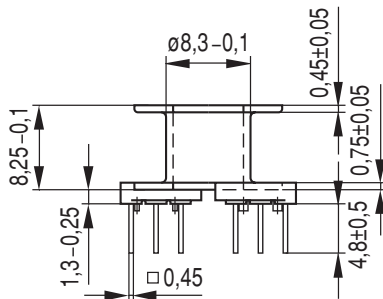
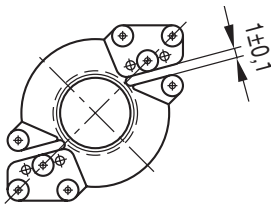
Resistance to soldering heat: to IEC 60068-2-20, test Tb, method 1B: 350 °C, 3,5 s

Winding: see "Processing Notes", page 153

Squared pins

For matching clamp and insulating washers see page 219

Sections	A_N mm ²	l_N mm	A_R value $\mu\Omega$	Pins	Ordering code
1	21,4	35,6	56	8	B65820-B1008-D1 B65820-W1008-D1



Hole arrangement
View in
mounting direction

FRM0276-3

Clamp

- With ground terminal, made of stainless spring steel (tinned), 0,4 mm thick
- Solderability to IEC 60068-2-20, test Ta, method 1 (aging 3): 235 °C, 2 s

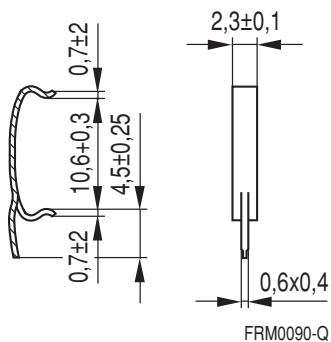
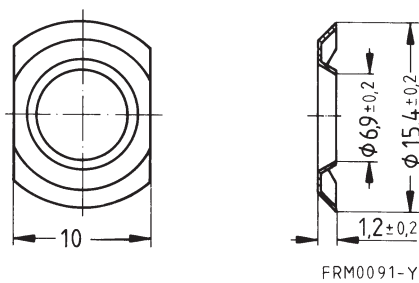
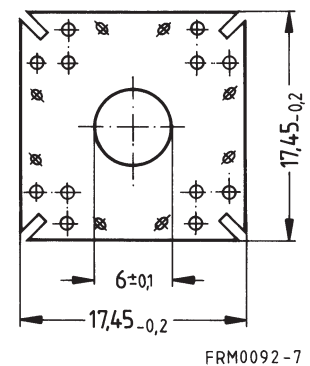
Insulating washer 1 between core and coil former

- For tolerance compensation and for insulation
- Made of polycarbonate (UL 94 V-0, insulation class to IEC 60085: E \geq 120 °C), 0,08 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)	B65820-B2001
Insulating washer 1 (reel packing, PU = 1 reel)	B65820-A5000
Insulating washer 2 (bulk)	B65820-C2005

Clamp

Insulating washer 1

Insulating washer 2


Adjusting screw

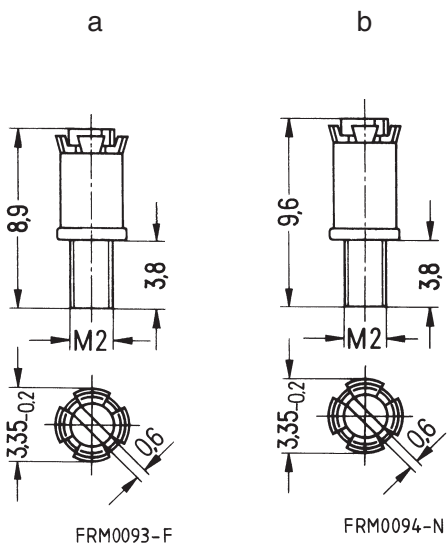
- Tube core with thread and core brake made of GFR polyterephthalate

Plastic **adjusting screwdriver** (not shown)

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

Core RM 7		Adjusting screw				Min. adjusting range %	Ordering code
Material	A _L value nH	Fig.	Tube core Ø × length mm	Material	Color code		
N48	250	a	2,60 × 3,7	N 22	red	12	B65659-F1-X23
	315	b	2,75 × 4,4	N 22	black	16	B65659-F3-X23
Adjusting screwdriver							B63399-B4
Handle							B63399-B5

Adjusting screws



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