



RM Cores

Series/Type: **RM 4 Low Profile**

The following products presented in this data sheet are being withdrawn.

Ordering Code	Substitute Product	Date of Withdrawal	Deadline Last Orders	Last Shipments
B65804A50000000		2004-10-18	2005-03-31	2005-09-30

For further information please contact your nearest EPCOS sales office, which will also support you in selecting a suitable substitute. The addresses of our worldwide sales network are presented at www.epcos.com/sales.

- In accordance with IEC 61860
- For compact transformers with high inductance
- Without center hole
- RM cores are supplied in sets

Magnetic characteristics (per set)

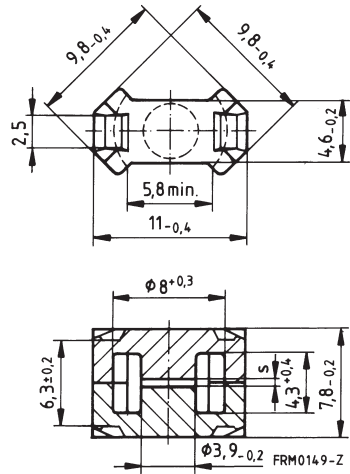
$$\Sigma l/A = 1,2 \text{ mm}^{-1}$$

$$l_e = 17,3 \text{ mm}$$

$$A_e = 14,5 \text{ mm}^2$$

$$A_{\min} = 11,3 \text{ mm}^2$$

$$V_e = 251 \text{ mm}^3$$

Approx. weight 1,2 g/set

Ungapped

Material	A_L value nH	μ_e	$A_{L1\min}$ nH	P_V W/set	Ordering code
T38	5000 + 40/- 30 %	4770			B65803-P-Y38
N49	860 + 30/- 20 %	820	630	< 0,03 (50 mT, 500 kHz, 100 °C)	B65803-P-R49
N92 ¹⁾	1000 + 30/- 20 %	980	950	< 0,14 (200 mT, 100 kHz, 100 °C)	B65803-P-R92
N87	1300 + 30/- 20 %	1234	950	< 0,12 (200 mT, 100 kHz, 100 °C)	B65803-P-R87

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 blue

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

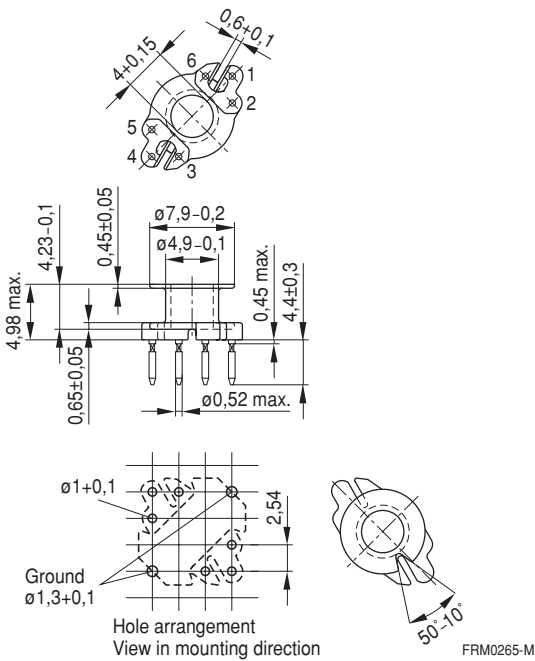
Resistance to soldering heat: to IEC 60068-2-20, test Tb, method 1B: 350 °C, 3,5 s

Winding: see "Processing Notes", page 160 (as SMD coil former)

Pins squared in the start-of-winding area

For matching clamp and insulating washers see page 191

Sections	A_N mm ²	l_N mm	A_R value $\mu\Omega$	Pins	Ordering code
1	4,7	20,1	147	6	B65804-R1006-D1



Clamp

- With ground terminal, made of stainless spring steel (tinned), 0,3 mm thick, Without ground terminal, made of stainless spring steel, 0,3 mm thick
- Solderability to IEC 60068-2-20, test Ta, method 1 (aging 3): 235 °C, 2 s
- Clamping force 40 N per pair of clamps (typical value)
- Also available as strip clamp on reels on request

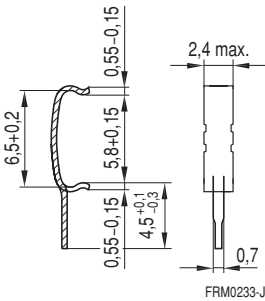
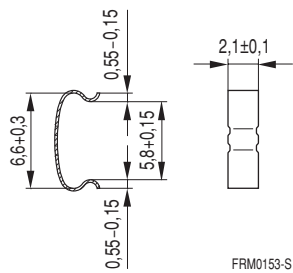
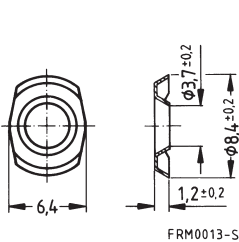
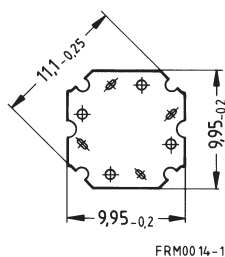
Insulating washer 1 between core and coil former

- For tolerance compensation and for insulation
- Made of polycarbonate (UL 94 V-0, insulation class to IEC 60085: E \geq 120 °C), 0,06 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 with ground terminal (ordering code per piece, 2 are required)	B65804-P2203
Clamp without ground terminal (ordering code per piece, 2 are required)	B65804-P2204
Insulating washer 1 (reel packing, PU = 1 reel)	B65804-A5000
Insulating washer 2 (bulk)	B65804-C2005

Clamp with ground terminal

Clamp without ground terminal

Insulating washer 1

Insulating washer 2


SMD coil former with J terminals

Material: GFR liquid crystal polymer (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): 350 °C, 1 s

Resistance to soldering heat: to IEC 60068-2-20, test Tb, method 1B: 350 °C, 3,5 s
permissible soldering temperature for wire-wrap connection on coil former: 400 °C, 1 s

Winding: see "Processing Notes", page 160

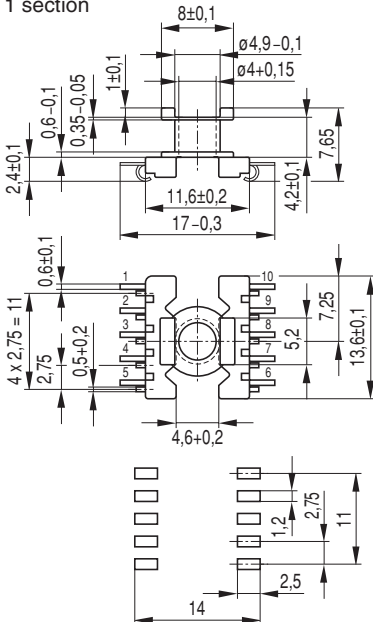
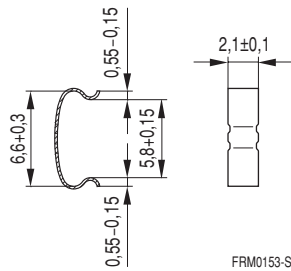
Clamp

- Without ground terminal, made of stainless spring steel, 0,3 mm thick
- Also available as strip clamp (each carton containing 2 reels)

Sections	A_N mm ²	l_N mm	A_R value $\mu\Omega$	Termi- nals ¹⁾	Ordering code
1	5,0	20,1	138	10	B65804-B6010-T1
Clamp	(ordering code per piece, 2 are required)				B65804-P2204

Coil former

1 section


Clamp


Recommended
PCB layout

FRM0258-5

1) 6 and 8 terminals on request

Herausgegeben von EPCOS AG

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Published by EPCOS AG

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This brochure replaces the previous edition.

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