



RM Cores

Series/Type: **RM 8**

The following products presented in this data sheet are being withdrawn.

Ordering Code	Substitute Product	Date of Withdrawal	Deadline Last Orders	Last Shipments
B65811D0000R026	B65811D0000R048	2002-08-02	2002-12-31	2003-03-31
B65812N1008D002	B65812K1008D002	2003-08-08	2004-02-29	2004-08-31
B65812K1012D002	B65812N1012D002	2003-08-08	2004-02-29	2004-08-31
B65812K1005D002	B65812N1005D002	2003-08-08	2004-02-29	2004-08-31
B65812B3001X022	B65812B3003X022	2003-08-08	2004-02-29	2004-08-31
B65812B3002X022	B65812B3003X022	2003-08-08	2004-02-29	2004-08-31
B65812B3001X101	B65812B3003X022	2004-01-23		

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Core

B65811

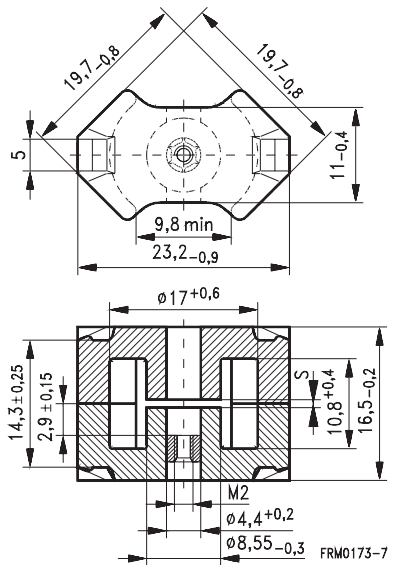
- In accordance with IEC 60431
- Cores without center hole for transformer applications
- RM cores are supplied in sets

Magnetic characteristics (per set)

	with center hole	without center hole	
$\Sigma I/A$	0,67	0,59	mm^{-1}
I_e	35,1	38	mm
A_e	52	64	mm^2
$A_{\min}$	—	55	mm^2
V_e	1 840	2 430	mm^3

Approx. weight (per set)

m	10,7	12	g
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Gapped

Material	A _L value nH	s approx. mm	μ _e	Ordering code ¹⁾ -D with center hole -F with threaded sleeve -J without center hole
N48	250 ± 3 % 315 ± 3 % 400 ± 3 % 630 ± 5 %	0,23 0,17 0,14 0,10	133 168 213 336	B65811-+250-A48 B65811-+315-A48 B65811-+400-A48 B65811-+630-J48
N41	160 ± 3 % 250 ± 5 % 630 ± 5 % 1600 ± 10 %	0,49 0,24 0,11 0,04	76 117 298 752	B65811-J160-A41 B65811-J250-J41 B65811-J630-J41 B65811-J1600-K41
N87	250 ± 3 % 400 ± 3 %	0,30 0,18	118 189	B65811-J250-A87 B65811-J400-A87

1) Replace the + by the code letter "F" or "D" for the required version. Standard version is "D".

RM 8	
Core	B65811

Ungapped

Material	A_L value nH	μ_e	A_{L1min} nH	P_V W/set	Ordering code -D with center hole -J w/o center hole
N26	2900 + 30/- 20 %	1550			B65811-D-R26
N30	5700 + 30/- 20 %	2680			B65811-J-R30
T38	12500 + 40/- 30 %	5870			B65811-J-Y38
N49	2200 + 30/- 20 %	1040	1270	< 0,37 (50 mT, 500 kHz, 100 °C)	B65811-J-R49
N87	3300 + 30/- 20 %	1560	1900	< 1,20 (200 mT, 100 kHz, 100 °C)	B65811-J-R87
N97 ¹⁾	3300 + 30/- 20 %	1560	1900	< 1,00 (200 mT, 100 kHz, 100 °C)	B65811-J-R97
N41	4100 + 30/- 20 %	1930	1900	< 0,36 (200 mT, 25 kHz, 100 °C)	B65811-J-R41

1) Preliminary data

Coil former, squared pins

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

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

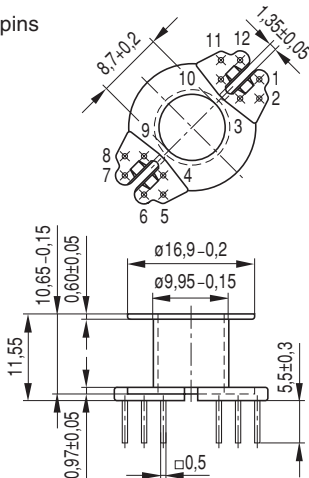
Solderability: to IEC 60068-2-20, test Ta, method 1 (aging 3): 235 °C, 2 s

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

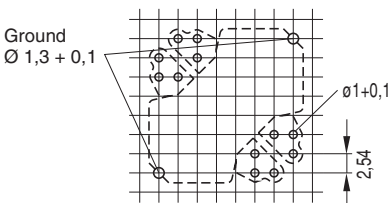
Winding: see "Processing Notes", page 153

For matching clamp and insulating washers see page 230

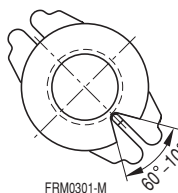
Sections	A_N mm ²	l_N mm	A_R value $\mu\Omega$	Pins	Ordering code
1	30	42	47	5 8 8 12	B65812-N1005-D1 B65812-N1008-D1 B65812-W1008-D1 B65812-N1012-D1
2	28,4	42	50	5 8	B65812-N1005-D2 B65812-N1008-D2

12 pins


Version	Pins omitted
5 pins	3, 4, 6, 7, 9, 10, 12
8 pins	3, 4, 9, 10



Hole arrangement
View in mounting direction



Coil former, pins squared in the start-of-winding area

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

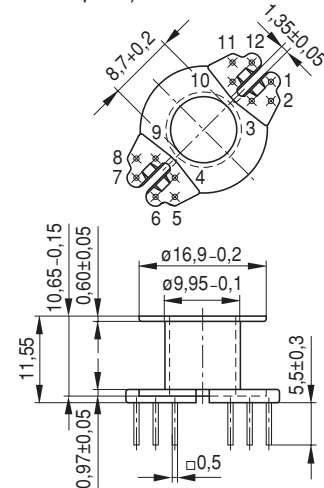
Winding: see "Processing Notes", page 153

For matching clamp and insulating washers see page 230

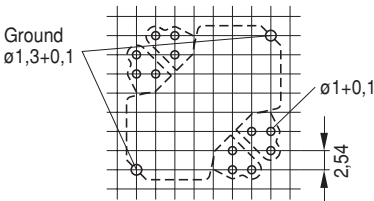
Sections	A_N mm ²	l_N mm	A_R value $\mu\Omega$	Pins	Ordering code
1	30	42	47	5	B65812-K1005-D1
				8	B65812-K1008-D1
				12	B65812-K1012-D1
2	28,4	42	50	5	B65812-K1005-D2
				12	B65812-K1012-D2

5 and 8 pins*)

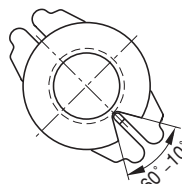
12 pins



*) Pins 6, 7 and 12 are omitted in the 5-pin version



Hole arrangement
View in mounting direction



FRM0240-2

Coil former for SMPS transformers with line isolation

The creepage distances and clearances are designed such that the coil former is suitable for use in SMPS transformers with line isolation.

- Closed center flange with external wire guide
- Pins squared in the start-of-winding area
- Optimized for use with automatic winding machines

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

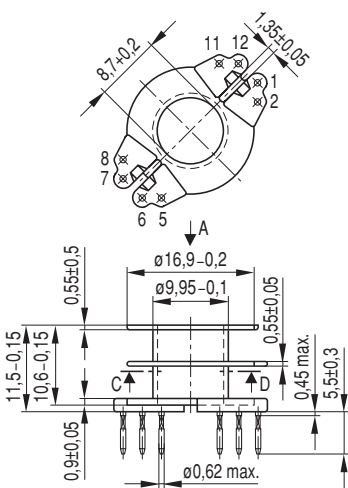
F $\triangleq$ max. operating temperature 155 °C), color code green

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

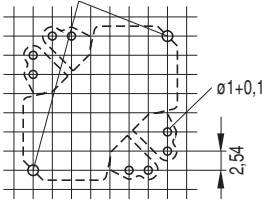
Resistance to soldering heat: to IEC 60068-2-20, test Tb, method 1B: 350 °C, 3,5 s

Winding: see "Processing Notes", page 153

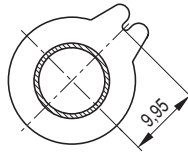
Sections	A_N mm ²	l_N mm	A_R value $\mu\Omega$	Pins	Ordering code
2	28,4	42	50	8	B65812-X1108-D2



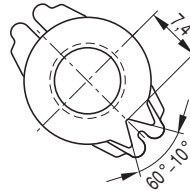
Ground $\varnothing$ 1,3±0,1



Section C-D



View A



Hole arrangement
View in mounting direction

FRM0260-G

For matching clamp and insulating washer 1 see page 230

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
- Also available as strip clamp on reels

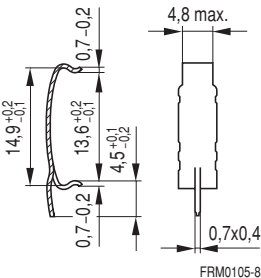
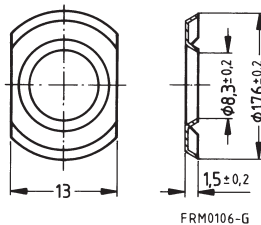
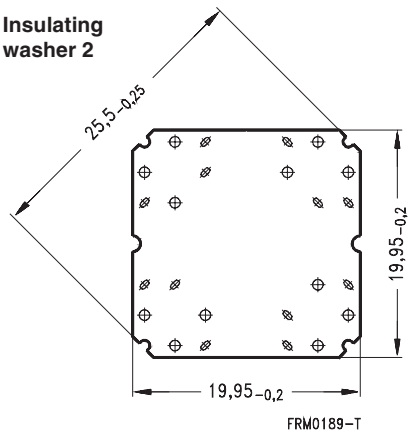
Insulating washer 1 between core and coil former

- For tolerance compensation and for insulation
- Made of polycarbonate (UL 94 V-0, insulation class to IEC 60085: E $\triangleq$ 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 $\triangleq$ 120 °C), 0,3 mm thick

	Ordering code
Clamp (ordering code per piece, 2 are required)	B65812-A2203
Insulating washer 1 (reel packing, PU = 1 reel)	B65812-A5000
Insulating washer 2 (bulk)	B65812-C2005

Clamp

Insulating washer 1

Insulating washer 2


RM 8	B63399
Accessories	B65812

Adjusting screw

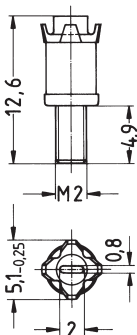
■ Tube core with thread and core brake made of GFR polyterephthalate

Plastic **adjusting screwdriver** (not shown)

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

Core RM 8		Adjusting screw			Min. adjusting range %	Ordering code
Material	A _L value nH	Tube core Ø × length mm	Material	Color code		
N 48	250	4,18 × 5,0	Si 1	white	12	B65812-B3001-X101
	315	3,85 × 5,0	N 22	gray	13	B65812-B3003-X22
	400	4,18 × 4,0	N 22	brown	17	B65812-B3002-X22
	630	4,18 × 5,0	N 22	black	9	B65812-B3001-X22
Adjusting screwdriver						B63399-B1
Handle						B63399-B5

Adjusting screw



FRM0108-X

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