



## PM/P/P Cores Halves/EP/TT/PR Cores

**Series/Type:** P 9 x 5

The following products presented in this data sheet are being withdrawn.

Ordering Code	Substitute Product	Date of Withdrawal	Deadline Last Orders	Last Shipments
B65522A50000000		2004-10-18	2005-03-31	2005-09-30
B65517D0000R026	B65517D0000R048	2002-08-02	2002-12-31	2003-03-31
B65518C3000X001	B65518C3000X101	2003-08-08	2004-02-29	2004-08-31
B65518C3000X101	B65518C3000X001	2004-01-23		

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**P 9 × 5**

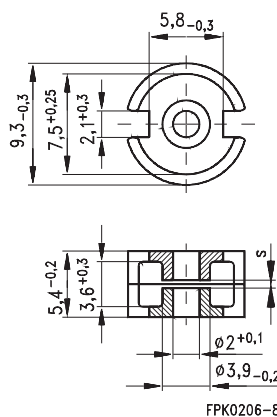
**Core**

**B65517**

- In accordance with IEC 60133
- Pot cores are supplied in sets

**Magnetic characteristics (per set)**

	with center hole	without center hole	
$\Sigma l/A$	1,25	1,13	mm <sup>-1</sup>
$l_e$	12,2	13,4	mm
$A_e$	9,8	11,9	mm <sup>2</sup>
$A_{min}$	—	9,3	mm <sup>2</sup>
$V_e$	120	159	mm <sup>3</sup>



**Approx. weight (per set)**

<i>m</i>	0,8	1,0	g

**Gapped**

Material	$A_L$ value nH	<i>s</i> approx. mm	$\mu_e$	Ordering code <sup>1)</sup> -D with center hole -T with threaded sleeve
K1	25 ± 3 %	0,45	25	B65517-+25-A1
	40 ± 3 %	0,26	40	B65517-+40-A1
M33	63 ± 3 %	0,20	63	B65517-D63-A33
N48	100 ± 3 %	0,10	100	B65517-+100-A48
	160 ± 3 %	0,06	159	B65517-+160-A48
	200 ± 3 %	0,04	200	B65517-D200-A48
	250 ± 5 %	0,03	249	B65517-D250-J48

**Ungapped**

Material	$A_L$ value nH	$\mu_e$	Ordering code -D with center hole -W without center hole
N26	1300 + 30/- 20 %	1190	B65517-D-R26
N30	2500 + 30/- 20 %	2490	B65517-D-R30
T38	5500 + 40/- 30 %	4945	B65517-W-Y38

1) Replace the + by the code letter "D" or "T" for the required version.



P 9 × 5

Accessories

B65522

**Coil former**

Standard: to IEC 60133

Material: GFR polyterephthalate (UL 94 V-0, insulation class to IEC 60085:  
F  $\triangleq$  max. operating temperature 155 °C), color code black

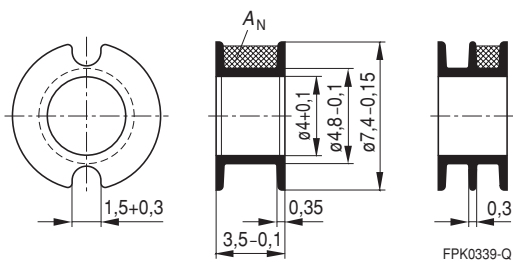
Winding: see "Processing Notes", page 155

**Insulating washer 1** between core and coil former

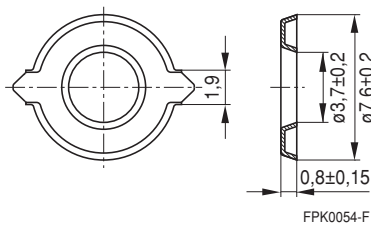
- For tolerance compensation and for insulation
- Polycarbonate spring washer (UL 94 V-0, insulation class to IEC 60085: E  $\triangleq$  120°C), 0,04 mm thick

Coil former				Ordering code
Sections	$A_N$ mm <sup>2</sup>	$l_N$ mm	$A_R$ value $\mu\Omega$	
1	3,6	19,2	183	B65522-B-T1
2	3,2	19,2	206	B65522-B-T2
Insulating washer 1 (reel packing, PU = 1 reel)				B65522-A5000

**Coil former**



**Insulating washer 1**





P 9 × 5

Accessories

B65524

SMD

**SMD coil former with gullwing terminals**

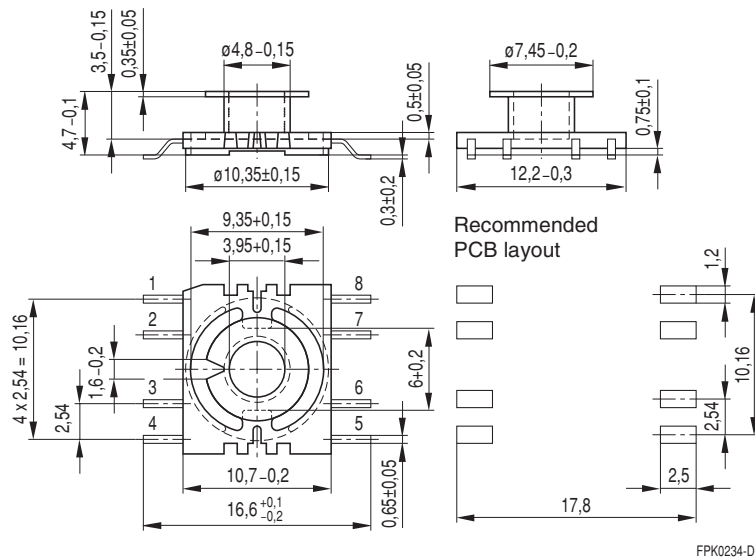
Material: GFR liquid crystal polymer (UL 94 V-0, insulation class to IEC 60085: F  $\hat{=}$  max. operating temperature 155 °C), color code black

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 155

Sections	A <sub>N</sub> mm <sup>2</sup>	l <sub>N</sub> mm	A <sub>R</sub> value μΩ	Terminals	Ordering code
1	3,4	19,2	194	4	B65524-C1004-T1
	3,4	19,2	194	8	B65524-C1008-T1



In the 4-terminal version terminals 2, 3, 6 and 7 are omitted.



P 9 × 5

Accessories

B65518

### Mounting assembly for printed circuit boards

- The set comprises a terminal carrier and a yoke
- For snap-in connection

#### Terminal carrier

- With thread for the adjusting screw (to be combined with core version "D")

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

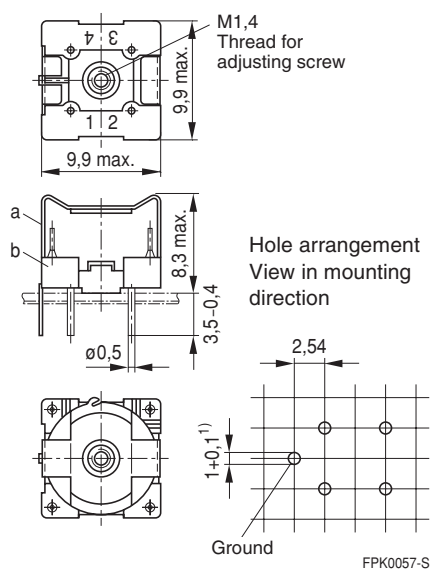
#### Yoke

Spring yoke, made of tinned nickel silver (0,25 mm), with ground terminal

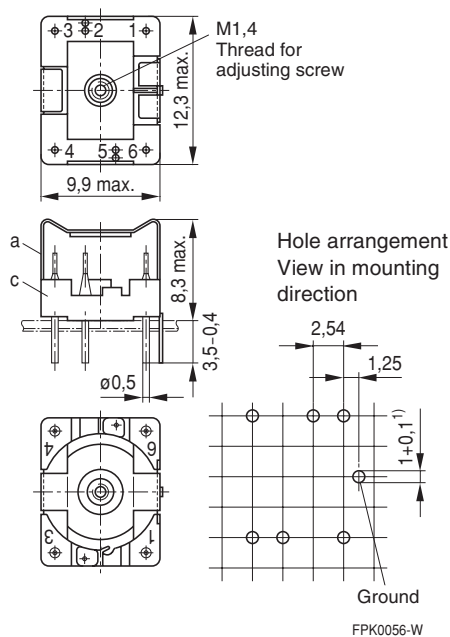
Complete mounting assembly  
(4 solder terminals)  
Ordering code: B65518-D2001

Complete mounting assembly  
(6 solder terminals)  
Ordering code: B65518-D2002

#### 4 solder terminals



#### 6 solder terminals



1) 1,3 hole also permissible

a) Yoke

b) Terminal carrier with 4 solder terminals

c) Terminal carrier with 6 solder terminals



P 9 × 5

B63399

Accessories

B65518

### Adjusting screw

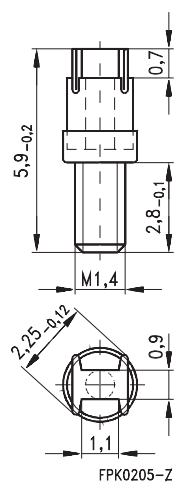
■ Tube core with thread and core brake made of GFR polyterephthalate

Plastic **adjusting screwdriver** (not shown)

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

Core P 9 × 5		Adjusting screw			Min. adjusting range %	Ordering code
Material	A <sub>L</sub> value nH	Tube core ∅ × length mm	Material	Color code		
K 1	25	1,81 × 2,0	Si 1	brown	17	B65518-C3000-X101
	40	1,81 × 2,0	K 1	blue	16	B65518-C3000-X1
M 33	40	1,81 × 2,0	Si 1	brown	16	B65518-C3000-X101
N 48	100	1,81 × 2,0	K 1	blue	15	B65518-C3000-X1
<b>Adjusting screwdriver</b>						B63399-B4
<b>Handle</b>						B63399-B5

### Adjusting screw



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