



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

Series/Type: **EP 7**

The following products presented in this data sheet are being withdrawn.

Ordering Code	Substitute Product	Date of Withdrawal	Deadline Last Orders	Last Shipments
B65839A0000Y042	B65839A0000Y066	2002-08-02	2002-12-31	2003-03-31

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.

EP 7

Core

B65839

- In accordance with IEC 61596
- For transformers featuring high inductance and low overall height
- For power applications
- EP cores are supplied in sets

Magnetic characteristics (per set)

$$\Sigma l/A = 1,52 \text{ mm}^{-1}$$

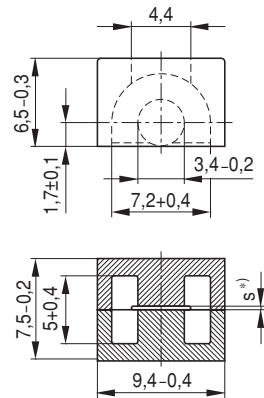
$$l_e = 15,7 \text{ mm}$$

$$A_e = 10,3 \text{ mm}^2$$

$$A_{\min} = 8,5 \text{ mm}^2$$

$$V_e = 162 \text{ mm}^3$$

Approx. weight 1,4 g/set



*) gapped (one-sided)

FEP0004-T

Gapped

Material	A _L value nH	s approx. mm	μ _e	Ordering code
T38	63 ± 3 %	0,20	76	B65839-A63-A38
	100 ± 3 %	0,13	121	B65839-A100-A38
	160 ± 5 %	0,08	194	B65839-A160-J38
	200 ± 6 %	0,06	243	B65839-A200-C38
	250 ± 7 %	0,05	303	B65839-A250-E38
T57 ¹⁾	63 ± 3 %	0,20	76	B65839-A63-A57
	100 ± 3 %	0,13	121	B65839-A100-A57
	160 ± 5 %	0,08	194	B65839-A160-J57
	200 ± 6 %	0,06	243	B65839-A200-C57
	250 ± 7 %	0,05	303	B65839-A250-E57
N87	63 ± 3 %	0,20	76	B65839-A63-A87
	100 ± 3 %	0,12	121	B65839-A100-A87
	160 ± 5 %	0,07	194	B65839-A160-J87
	200 ± 6 %	0,06	243	B65839-A200-C87
	250 ± 7 %	0,05	303	B65839-A250-E87

1) Preliminary data

Ungapped

Material	A_L value nH	μ_e	A_{L1min} nH	P_V W/set	Ordering code
N30	2000 + 30/- 20 %	2420			B65839-A-R30
T57 ¹⁾	1500 + 30/- 20 %	1820			B65839-A-R57
T65	3000 + 30/- 20 %	3640			B65839-A-R65
T38	5200 + 40/- 30 %	6290			B65839-A-Y38
T42	5800 + 40/- 30 %	7000			B65839-A-Y42
N87	1100 + 30/- 20 %	1330	750	< 0,08 (200 mT, 100 kHz, 100 °C)	B65839-A-R87

¹⁾ Preliminary data

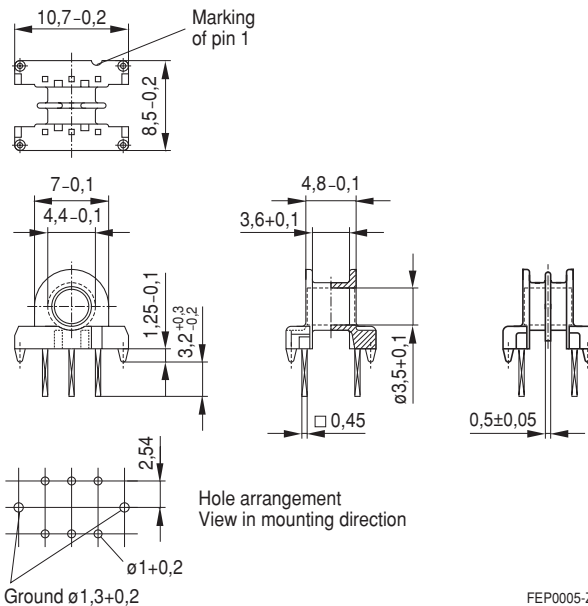
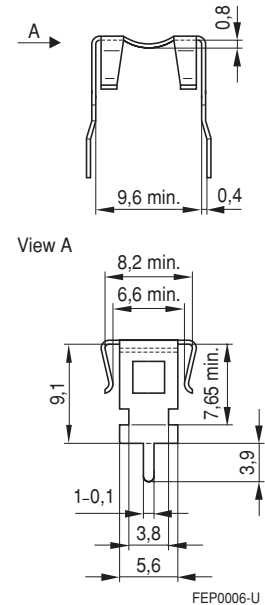
Coil former

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 156
 Squared pins

Cap yoke

With ground terminal, made of stainless spring steel (tinned), 0,25 mm thick

Coil former					Ordering code
Sections	A_N mm ²	l_N mm	A_R value $\mu\Omega$	Terminals	
1	4,7	17,7	128,7	4 6	B65840-B1004-D1 B65840-B1006-D1
2	4,2	17,7	143,8	4 6	B65840-B1004-D2 B65840-B1006-D2
Cap yoke					B65840-D2000

Coil former

Cap yoke


FEP0005-Z

FEP0006-U

SMD coil former with U terminals

Material: GFR liquid crystal polymer (UL 94 V-0, insulation class to IEC 60085:

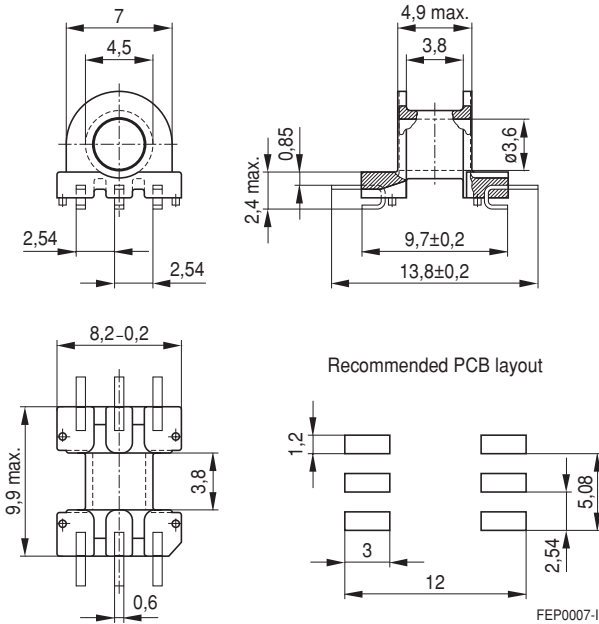
F $\triangleq$ max. operating temperature 155 °C), color code black

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

Sections	A_N mm ²	l_N mm	A_R value $\mu\Omega$	Terminals	Ordering code
1	4,7	18,0	132,9	6	B65840-F1106-T1



Herausgegeben von EPCOS AG

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