

- 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)

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

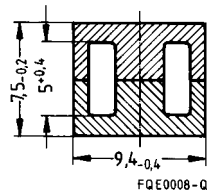
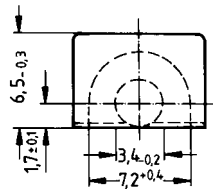
$l_e = 15,7 \text{ mm}$

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

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

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

Approx. weight 1,4 g/set



Gapped

Material	A_L value nH	s approx. mm	μ_e	Ordering code
N87	140 ± 5 %	0,08	170	B65839-A140-J87
N30	250 ± 5 %	0,05	300	B65839-A250-J30

Ungapped

Material	A_L value nH	μ_e	$A_{L1\min}$ nH	P_V W/set	Ordering code
N67	1100 + 30/- 20 %	1330	750	0,11 (200 mT, 100 kHz, 100 °C)	B65839-A-R67
N87	1100 + 30/- 20 %	1330	750	0,08 (200 mT, 100 kHz, 100 °C)	B65839-A-R87
N26 ¹⁾	1100 + 30/- 20 %	1330			B65839-A-R26
N30	2000 + 30/- 20 %	2420			B65839-A-R30
T65 ¹⁾	3000 + 30/- 20 %	3640			B65839-A-R65
T38	5200 + 40/- 30 %	6290			B65839-A-Y38
T42	5800 + 40/- 30 %	7000			B65839-A-Y42

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 page 155

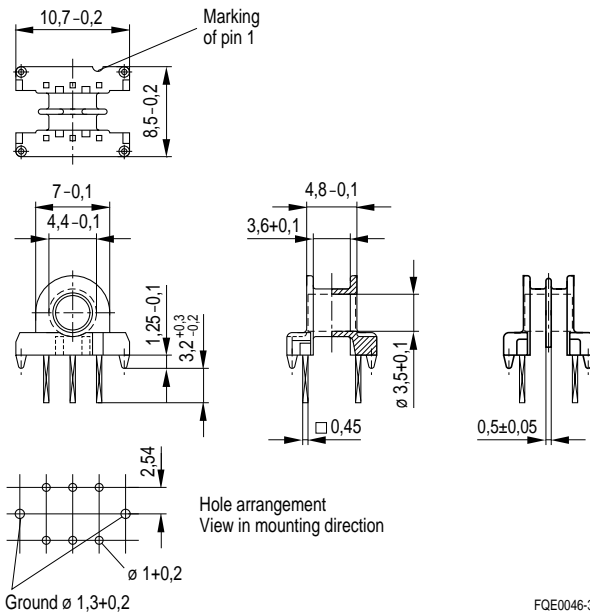
Squared pins

Cap yoke

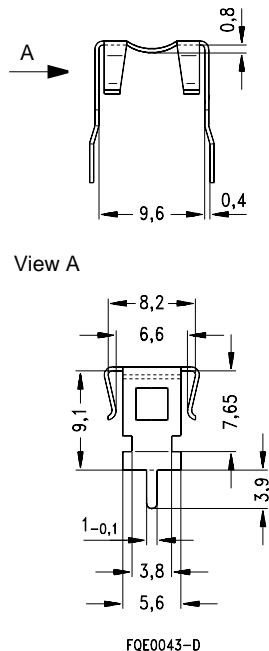
Material: With ground terminal, made of stainless spring steel (tinned), 0,25 mm thick

Coil former					Ordering code
Sections	A_N mm ²	l_N mm	A_R value $\mu\Omega$	Terminals	
1	3,7	17,9	166	6	B65840-B1006-D1
2	3,2	17,9	192	6	B65840-B1006-D2
Cap yoke					B65840-C2000

Coil former



Cap yoke



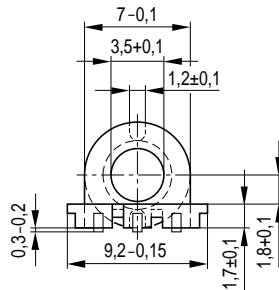
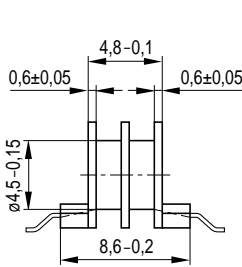
SMD coil former with gullwing terminals

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

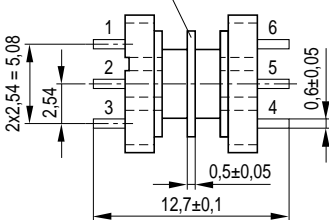
Resistance to soldering heat: to IEC 60068-2-20, test Tb, method 1B: 350 °C, 3,5 s
permissible soldering temperature for wire-wrap connection on coil former: 400 °C, 1 s

Winding: see page 160

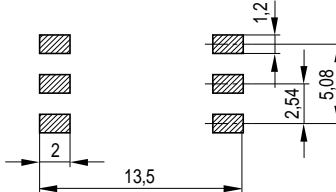
Sections	A_N mm ²	l_N mm	A_R value $\mu\Omega$	Terminals	Ordering code
1	4,0	17,9	154	6	B65840-N1106-T1
2	3,6	17,9	171	6	B65840-N1106-T2



Omitted in
1-section version



Recommended
PCB layout



FEK0358-X