Chokes for power lines

FC core chokes

Series/Type: **B82732F**
Date: May 2006

Rated voltage 250 VAC
Rated current 0.45 to 1.6 A
Rated inductance 10 to 100 mH

Construction

- Current-compensated double choke
- Closed magnetic circuit with frame construction
- 4-section winding with direct winding of the core
- Optional magnetic bypass to increase stray inductance
- Height 14 mm

Features

- High inductance with low resistance
- Excellent differential-mode suppression
- Low height allows usage in lamp ballasts
- High pulse-handling capability
- Industry best inductance/rated current ratio

Applications

- Electronic ballasts for lamps
- High power switch-mode power supplies for consumer electronics

Terminals

- Lead-free
- Pins fitting standard PCB grid

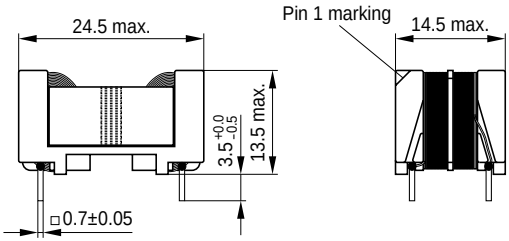
Marking

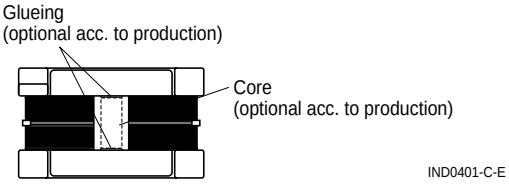
EPCOS, rated inductance, rated current, ordering code, date of manufacture

Approvals

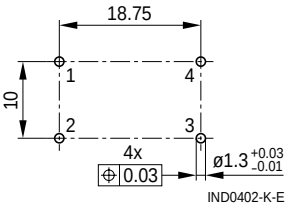
Marks of conformity	Standards
	EN 60938-2 (pending)
	UL 1283 (pending)

Dimensional drawing and pin configuration





Layout recommendation
(top view)



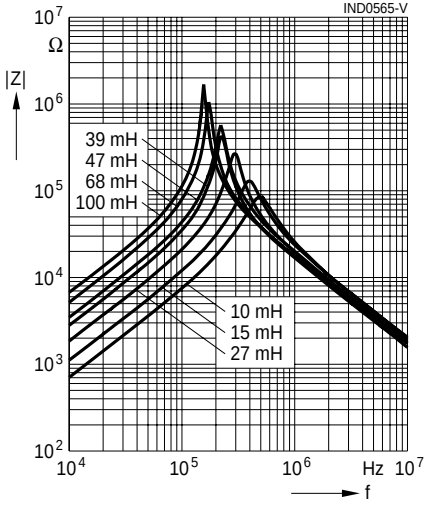
General technical data and measuring conditions

Rated voltage V_R	250 V AC
Test voltage V_{test}	1500 V AC, 2 s (line/line)
Rated current I_R	Referred to 50 Hz and 40 °C ambient temperature
Inductance tolerance	±30%
Rated inductance L_R	Measured at 20 °C, measuring current 0.1 mA, measuring frequency 10 kHz the inductance is specified per winding
$\Delta L/L_0$	<10% at DC loading with I_R
Climatic category	40/125/56 to IEC 60068-1
Weight	Approx. 18 g

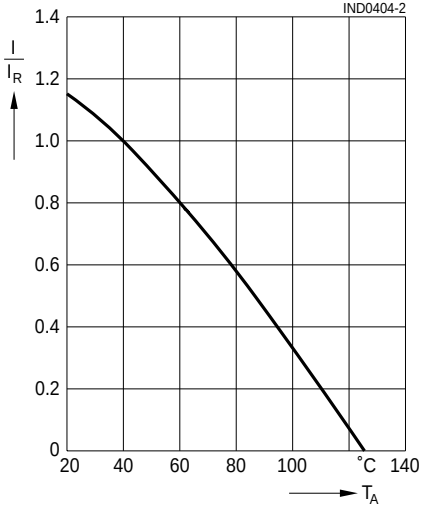
Characteristics and ordering codes

I_R A	L_R mH	$L_{S, typ}$ µH	R_{typ} mΩ	Ordering code
0.45	100	1930	2930	B82732F2451B001
0.6	68	1340	1970	B82732F2601B001
0.7	47	920	1260	B82732F2701B001
0.8	39	760	1100	B82732F2801B001
0.9	27	520	770	B82732F2901B001
1.3	15	290	430	B82732F2132B001
1.6	10	200	290	B82732F2162B001

Impedance |Z| versus frequency f
(measured with windings in parallel)



Current derating I/I_R
versus ambient temperature T_A



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