



Chokes for power lines

FC core chokes

Series/Type: B82733F
Date: June 2006

Rated voltage 250 VAC
Rated current 0.7 to 2.3 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

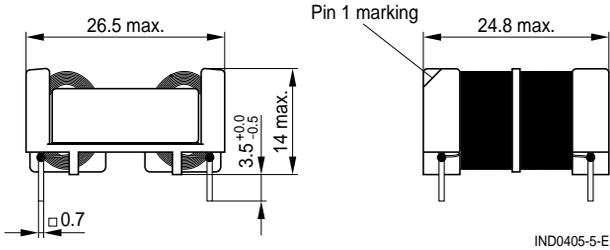
- Lead-free
- Pins fitting standard PCB grid

Marking

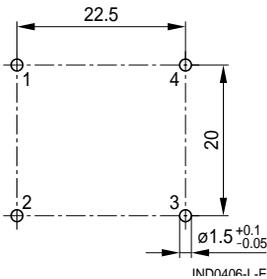
EPCOS, rated inductance, rated current, ordering code, date of manufacture

Approvals

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

Dimensional drawing and pin configuration


Layout recommendation
(top view)

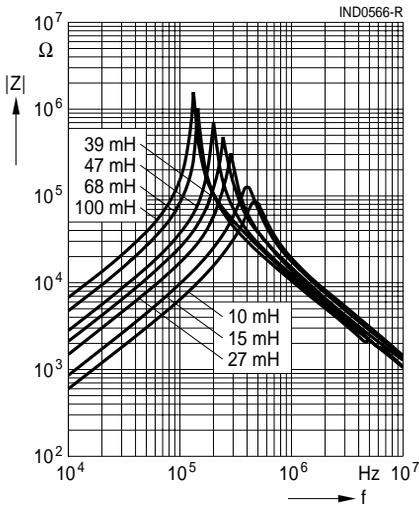

General technical data and measuring conditions

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

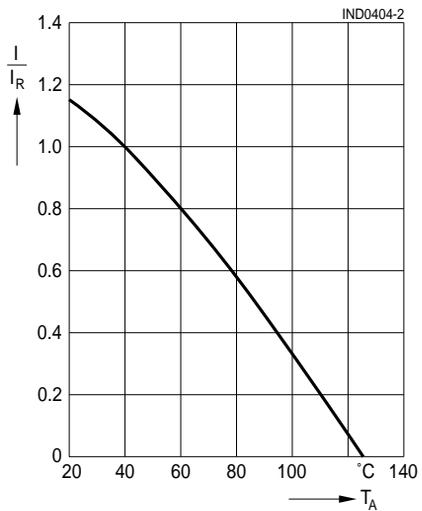
Characteristics and ordering codes

I_R A	L_R mH	L_S, typ μH	R_{typ} m Ω	Ordering code
0.7	100	2100	1810	B82733F2701B001
0.9	68	1440	1100	B82733F2901B001
1.1	47	970	804	B82733F2112B001
1.2	39	800	696	B82733F2122B001
1.4	27	530	440	B82733F2142B001
1.9	15	310	279	B82733F2192B001
2.3	10	200	188	B82733F2232B001

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



Current derating I/I_R
versus ambient temperature T_A



Important notes

The following applies to all products named in this publication:

1. Some parts of this publication contain **statements about the suitability of our products for certain areas of application**. These statements are based on our knowledge of typical requirements that are often placed on our products in the areas of application concerned. We nevertheless expressly point out **that such statements cannot be regarded as binding statements about the suitability of our products for a particular customer application**.

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2. We also point out that **in individual cases, a malfunction of passive electronic components or failure before the end of their usual service life cannot be completely ruled out in the current state of the art, even if they are operated as specified**. In customer applications requiring a very high level of operational safety and especially in customer applications in which the malfunction or failure of a passive electronic component could endanger human life or health (e.g. in accident prevention or life-saving systems), it must therefore be ensured by means of suitable design of the customer application or other action taken by the customer (e.g. installation of protective circuitry or redundancy) that no injury or damage is sustained by third parties in the event of malfunction or failure of a passive electronic component.

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