

## **Chokes for power lines**

FC core chokes

Series/Type: B82733F
Date: June 2006



## **Chokes for power lines**

#### FC core chokes

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**

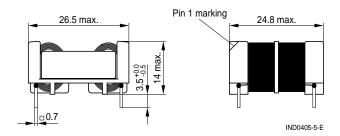
Marks of conformity	Standards
	EN 60938-2 (pending)
<i>7</i> 1	UL 1283 (pending)



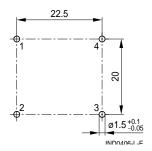


## FC core chokes

## Dimensional drawing and pin configuration



# Layout recommendation (top view)



## General technical data and measuring conditions

Rated voltage V <sub>R</sub>	250 V AC	
Test voltage V <sub>test</sub>	1500 V AC, 2 s (line/line)	
Rated current I <sub>R</sub>	Referred to 50 Hz and 40 °C ambient temperature	
Inductance tolerance	±30%	
Rated inductance L <sub>R</sub>	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 <sub>R</sub>	
Climatic category	40/125/56 (to IEC 60068-1))	
Weight	Approx. 18 g	

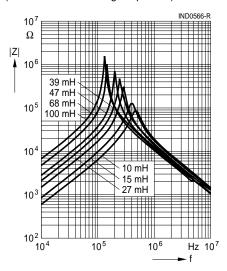


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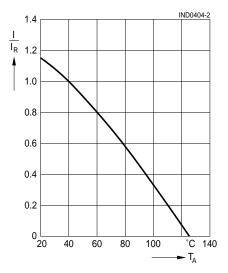
## Characteristics and ordering codes

I <sub>R</sub>	L <sub>R</sub>	L <sub>S, typ</sub>	R <sub>typ</sub>	Ordering code
Α	mH	μΗ	mΩ	
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<sub>R</sub>** versus ambient temperature T<sub>A</sub>





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