



Power line chokes

Current-compensated ring core double chokes
250 V AC, 0.5 ... 6 A, 1 ... 56 mH

Series/Type: B82723A/J
Date: October 2008

Rated voltage 250 V AC

Rated current 0.5 A to 6 A

Rated inductance 1 mH to 56 mH

Construction

- Current-compensated ring core double choke
- Ferrite core
- Polycarbonate case (UL 94 V-0)
- Polyurethane potting (UL 94 V-0)
- Sector winding

Features

- High resonance frequency due to special winding technique
- Approx. 1% stray inductance for symmetrical interference suppression
- Suitable for wave soldering
- Design complies with EN 60938-2 (VDE 0565-2)
- UL and/or VDE approvals  
- RoHS-compatible

Applications

- Suppression of common-mode interferences
- Electronic ballasts in lamps
- Switch-mode power applications

Terminals

- Base material CuNi18Zn20
- Layer composition Ni, Sn
- Hot-dipped
- Pins 0.7×0.7 (mm)
- Lead spacing 15×12.5 (mm) or 25×15 mm

Marking

Manufacturer, approval signs and/or VDE standard number, ordering code, graphic symbol, rated current, rated voltage, rated inductance, date of manufacture (YYWWD)

Delivery mode

Blister tray in cardboard box



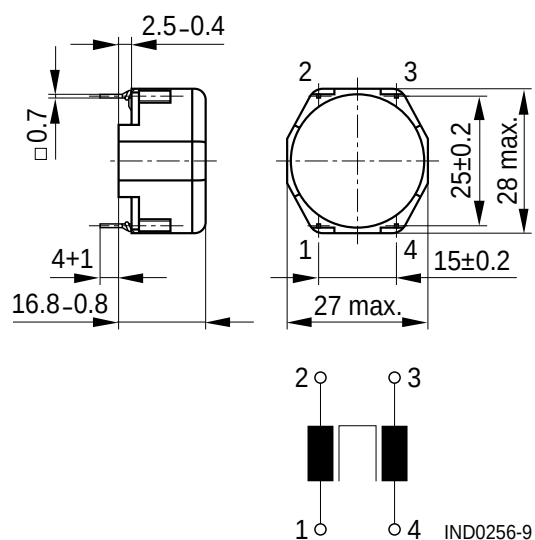
B82723A



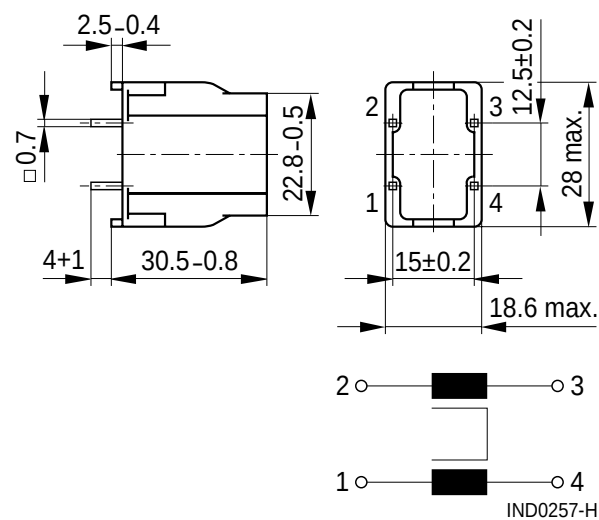
B82723J

Dimensional drawings and pin configurations

Horizontal version (B82723A)



Vertical version (B82723J)



Tolerances to ISO 2768-C unless otherwise noted.

Dimensions in mm

Technical data and measuring conditions

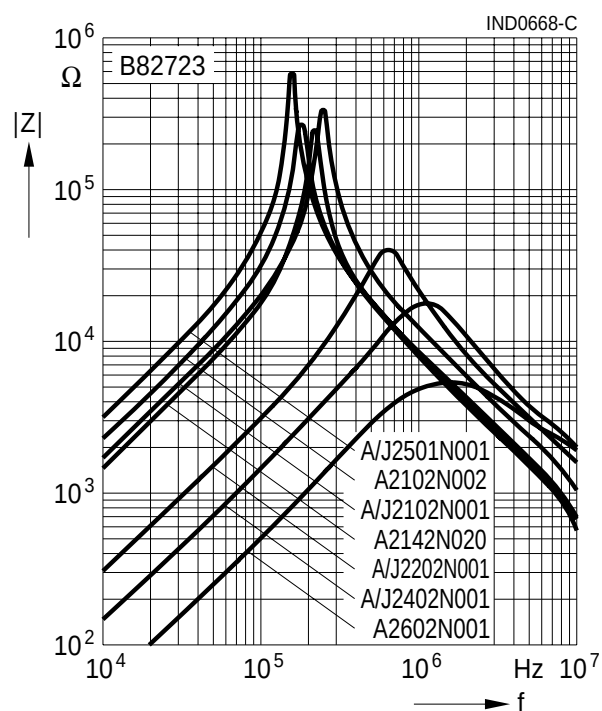
Rated voltage V_R	250 V AC (50/60 Hz)
Test voltage V_{test}	1500 V AC, 2 s (line/line)
Rated temperature T_R	40 °C / 60 °C / 70 °C
Rated current I_R	Referred to 50 Hz and rated temperature
Rated inductance L_R	Measured with Agilent 4284A at 0.1 mA, 20 °C Measuring frequency: $L_R \leq 1 \text{ mH} = 100 \text{ kHz}$ $L_R > 1 \text{ mH} = 10 \text{ kHz}$ Inductance is specified per winding.
Inductance tolerance	$\pm 30\%$ at 20 °C
Inductance decrease $\Delta L/L_0$	$< 10\%$ at DC magnetic bias with I_R , 20 °C
Stray inductance $L_{stray,typ}$	Measured with Agilent 4284A at 5 mA, 20 °C, typical values Measuring frequency: $L_R \leq 1 \text{ mH} = 100 \text{ kHz}$ $L_R > 1 \text{ mH} = 10 \text{ kHz}$
DC resistance R_{typ}	Measured at 20 °C, typical values, specified per winding
Solderability (lead-free)	Sn96.5Ag3.0Cu0.5: (245 $\pm$ 5) °C, (3 $\pm$ 0.3) s Wetting of soldering area $\geq 95\%$ (to IEC 60068-2-20, test Ta)
Resistance to soldering heat (wave soldering)	(260 $\pm$ 5) °C, (10 $\pm$ 1) s (to IEC 60068-2-20, test Tb)
Climatic category	40/125/56 (to IEC 60068-1)
Storage conditions (packaged)	-25 °C ... +40 °C, $\leq 75\%$ RH
Weight	Approx. 18 g
Approvals	EN 60938-2, UL 1283

Characteristics and ordering codes

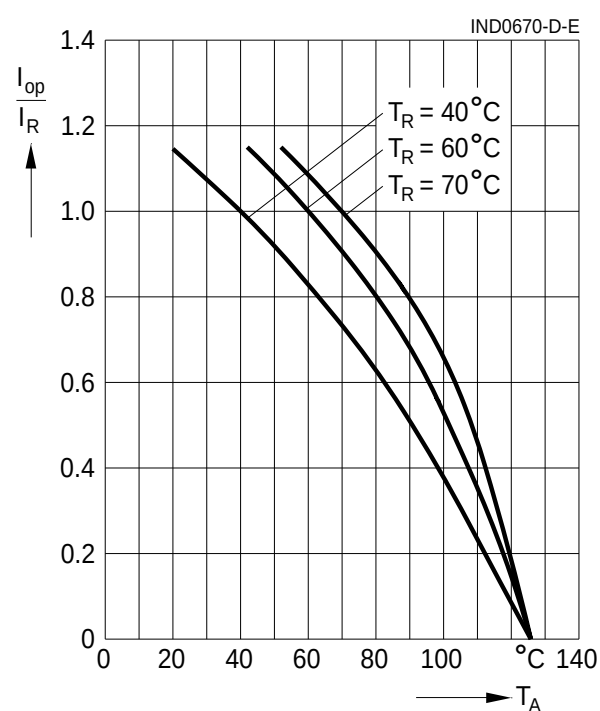
I_R A	L_R mH	$L_{\text{stray, typ}}$ μH	R_{typ} $\text{m}\Omega$	T_R $^{\circ}\text{C}$	Ordering code		Approvals	
					Horizontal version	Vertical version		
0.5	56	800	2100	60	B82723A2501N001	B82723J2501N001	×	×
1.0	39	430	750	40	B82723A2102N002	—	—	—
1.0	27	440	750	60	B82723A2102N001	B82723J2102N001	×	×
1.4	27	270	440	40	B82723A2142N020	—	—	—
2.0	5.6	70	160	60	B82723A2202N001	B82723J2202N001	×	×
4.0	2.7	30	60	60	B82723A2402N001	B82723J2402N001	×	×
6.0	1.0	12	22	70	B82723A2602N001	—	—	—

× = approval granted

Impedance $|Z|$ versus frequency f
measured with windings in parallel at 20°C ,
typical values



Current derating I_{op}/I_R
versus ambient temperature T_A



Cautions and warnings

- Please note the recommendations in our Inductors data book (latest edition) and in the data sheets.
 - Particular attention should be paid to the derating curves given there.
 - The soldering conditions should also be observed. Temperatures quoted in relation to wave soldering refer to the pin, not the housing.
- If the components are to be washed varnished it is necessary to check whether the washing varnish agent that is used has a negative effect on the wire insulation, any plastics that are used, or on glued joints. In particular, it is possible for washing varnish agent residues to have a negative effect in the long-term on wire insulation.
- The following points must be observed if the components are potted in customer applications:
 - Many potting materials shrink as they harden. They therefore exert a pressure on the plastic housing or core. This pressure can have a deleterious effect on electrical properties, and in extreme cases can damage the core or plastic housing mechanically.
 - It is necessary to check whether the potting material used attacks or destroys the wire insulation, plastics or glue.
 - The effect of the potting material can change the high-frequency behaviour of the components.
- Ferrites are sensitive to direct impact. This can cause the core material to flake, or lead to breakage of the core.
- Even for customer-specific products, conclusive validation of the component in the circuit can only be carried out by the customer.

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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