

## Power Line Chokes

Current-compensated ring core double chokes  
250 V AC, 0.56 ... 82 mH, 1 ... 16 A,  
+40 °C / +45 °C / +55 °C / +60 °C

**Series/Type:**            **B82725A**  
**Date:**                     January 2018

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**Rated voltage 250 V AC**

**Rated inductance 0.56 ... 82 mH**

**Rated current 1 ... 16 A / +40 °C, +45 °C, +55 °C, +60 °C**

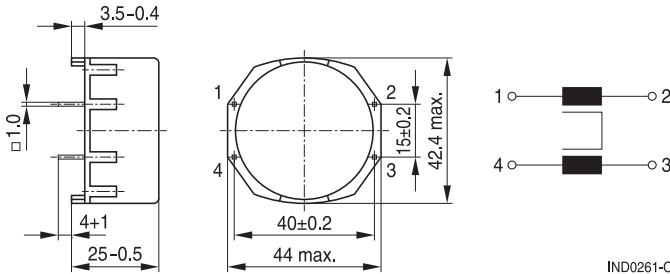
### **Construction**

- Current-compensated ring core double choke
- Ferrite core with epoxy coating (UL 94 V-0)
- Plastic case with in-molded pins (UL 94 V-0)<sup>1)</sup>
- Potting (UL 94 V-0)
- Sector winding

### **Features**

- High resonance frequency due to special winding technique
- Approx. 1% stray inductance for symmetrical interference suppression
- Suita A s ei

## Dimensional drawing and pin configuration



Part tolera



IND0261-C

IND1276-L-E

## 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 / +45 °C / +55 °C / +60 °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: $L_R \leq 1$ mH = 100 kHz $L_R > 1$ mH = 10 kHz Inductance is specified per winding.
Inductance tolerance	±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: $L_R \leq 1$ mH = 100 kHz $L_R > 1$ mH = 10 kHz
DC resistance $R_{typ}$	Measured at +20 °C, typical values, specified per winding
Solderability (lead-free)	Sn96.5Ag3.0Cu0.5: +(245 ±3) °C, (3 ±0.3) s Wetting of soldering area ≥ 95% (to IEC 60068-2-20, test Ta)
Resistance to soldering heat (wave soldering)	+(260 ±5) °C, (10 ±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, ≤ 75% RH
Weight	Approx. 46 g ... 72 g
Approvals	IEC/EN 60938-2, UL 1283 (E70122)

**Characteristics and ordering codes**

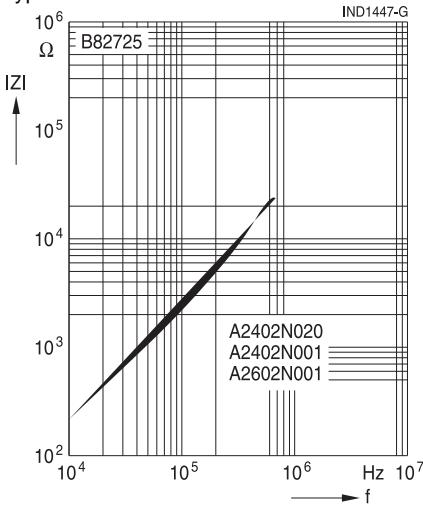
I <sub>R</sub> A	L <sub>R</sub> mH	L <sub>stray,typ</sub> μH	R <sub>typ</sub> mΩ	T <sub>R</sub> °C	Ordering code	Approvals	
							
1	68	850	1300	+60	B82725A2102N001	×	×
1.2	82	800	950	+60	B82725A2122N020	×	×
2	18	220	330	+60	B82725A2202N001	×	×
4	14	100	80	+60	B82725A2402N020	×	×
4	6.8	75	80	+60	B82725A2402N001	×	×
6	3.9	40	40	+60	B82725A2602N001	×	×
8	3.9	35	31	+40	B82725A2802N020	×	×
8	2.7	25	22	+60	B82725A2802N001	×	×
10	1.8	20	14	+60	B82725A2103N001	×	×
12	3.3	16	12	+60	B82725A2123N040	×	×
12	1.0	14	11	+55	B82725A2123N001	×	×
14	1.2	12	10	+45	B82725A2143N020	×	×
16	0.56	6	7	+40	B82725A2163N020	×	×

× = approval granted

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



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

**Current derating  $I_{op}/I_R$**   
 versus temperature  $T_A$



