

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

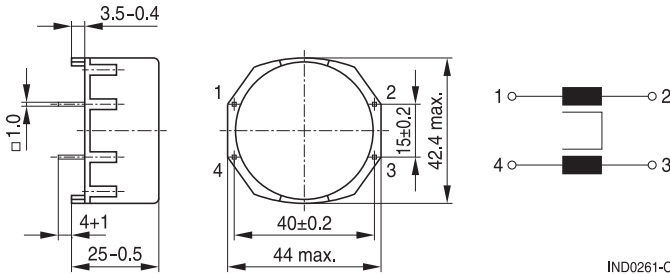
- Current-compensated ring core double choke
- Ferrite core with epoxy coating (UL 94 V-0)
- Plastic case with in-molded pins (UL 94 V-0)¹⁾
- Potting (UL 94 V-0)
- Sector winding

Features

- High resonance frequency due to special winding technique
- Approx. 1% stray inductance for symmetrical interference suppression
- Suitable for use in high-voltage applications

Suita

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	$\pm 30\%$ 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: $L_R \leq 1$ 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 \pm 3) °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. 46 g ... 72 g
Approvals	IEC/EN 60938-2, UL 1283 (E70122)

Characteristics and ordering codes

I _R A	L _R mH	L _{stray,typ} μH	R _{typ} mΩ	T _R °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	×	×

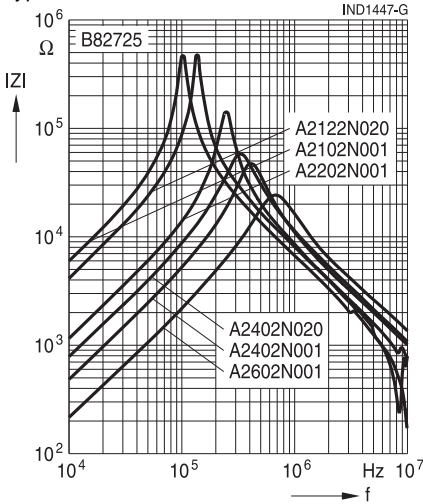
× = approval granted

Display of ordering codes for EPCOS products

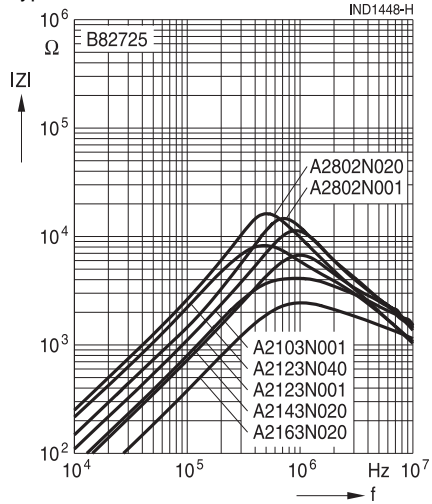
The ordering code for one and the same product can be represented differently in data sheets, data books, other publications and the website of EPCOS, or in order-related documents such as shipping notes, order confirmations and product labels. **The varying representations of the ordering codes are due to different processes employed and do not affect the specifications of the respective products.** Detailed information can be found on the Internet under www.epcos.com/orderingcodes.

Current-compensated ring core double chokes

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

