

E core chokes

Rated voltage 250 VAC

Rated current 0.3 to 1.8 A

Rated inductance 3.3 to 100 mH

Construction

- Current-compensated double choke with closed E ferrite core
- Closed PETP coil former with 4 sections
- Without encapsulation
- 2-section winding
- Clearances >2.5 mm, creepage distances >3 mm



Features

- Coil former flame-retardant as per UL 94 V-0
- High resonance frequency due to 2-section winding
- High pulse strength
- Low whirring noise
- Approx. 2% stray inductance for symmetrical interference suppression

Applications

- Electronic ballasts for lamps
- Switch-mode power supplies for consumer electronics


Terminals

- Pins lead-free tinned
- Lead spacing 10 x 10 mm

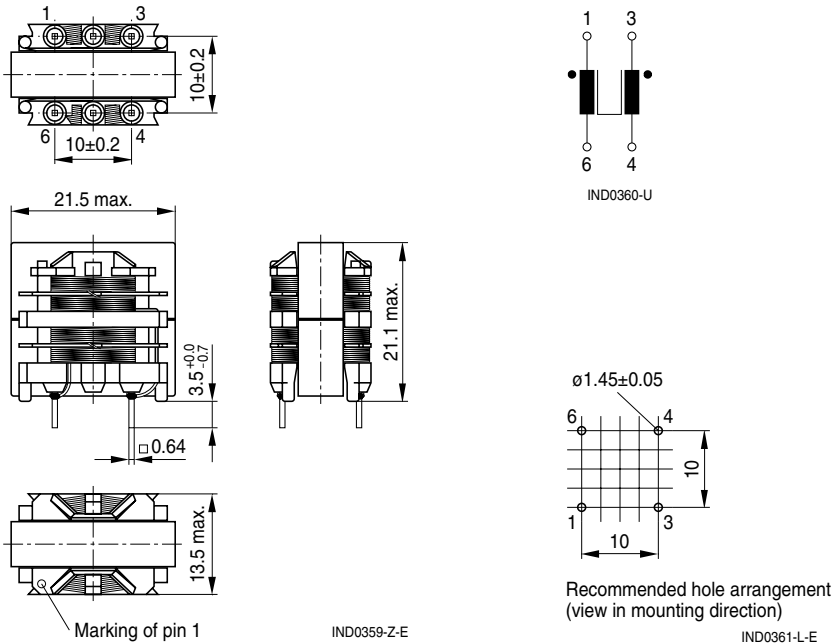
Marking

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

Approvals

Approval marks	Standards
	EN 60938-2 UL 1283

Dimensional drawing and pin configuration



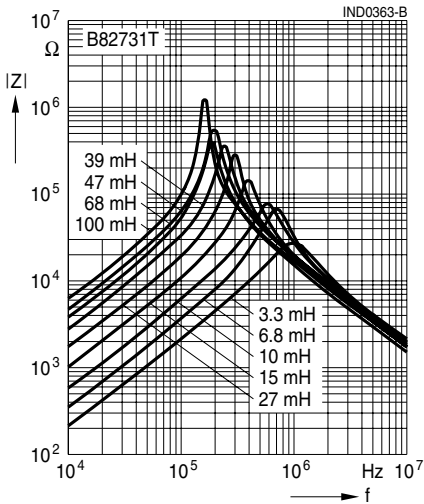
General technical data

Rated voltage V_R	250 VAC
Test voltage V_{test}	1500 VAC, 2 s (line/line)
Rated current I_R	Referred to 50 Hz and 40 °C ambient temperature
Rated inductance L_R	Measured at 20 °C, measuring current 0.1mA, measuring frequency 10 kHz (specified per winding)
Inductance tolerance	-30/+50%
Inductance decrease $\Delta L/L_0$	<10% at DC magnetic bias with I_R
Climatic category	40/125/56 (-40/+125/56 days damp heat test) to EN 60068-1
Weight	Approx. 15 g

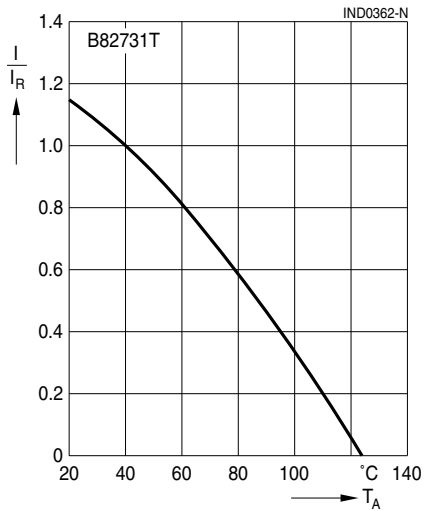
Characteristics and ordering codes

I_R A	L_R mH	$L_{\text{stray, typ}}$ μH	R_{typ} $\text{m}\Omega$	Ordering code
0.3	100	2000	6600	B82731T2301A020
0.35	68	1300	4400	B82731T2351A020
0.45	47	950	2800	B82731T2451A020
0.55	39	800	2200	B82731T2551A020
0.65	27	550	1600	B82731T2651A020
0.8	15	300	950	B82731T2801A020
1.0	10	200	630	B82731T2102A020
1.3	6.8	140	370	B82731T2132A020
1.8	3.3	65	200	B82731T2182A020

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



Current derating I/I_R versus ambient temperature T_A



Published by EPCOS AG

Corporate Communications, P.O. Box 80 17 09, 81617 Munich, GERMANY

☎ ++49 89 636 09, FAX (0 89) 636-2 26 89

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