



RM6

Ferrite core

Series/Type: B65807
Ordering code: B65807N0200A048
Date: 2016-11-15
Version: 1

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Magnetic characteristics (per set)

$\Sigma l/A$	=	0.86 mm ⁻¹
l_e	=	26.9 mm
A_e	=	31.3 mm ²
V_e	=	840 mm ³

Approx. weight

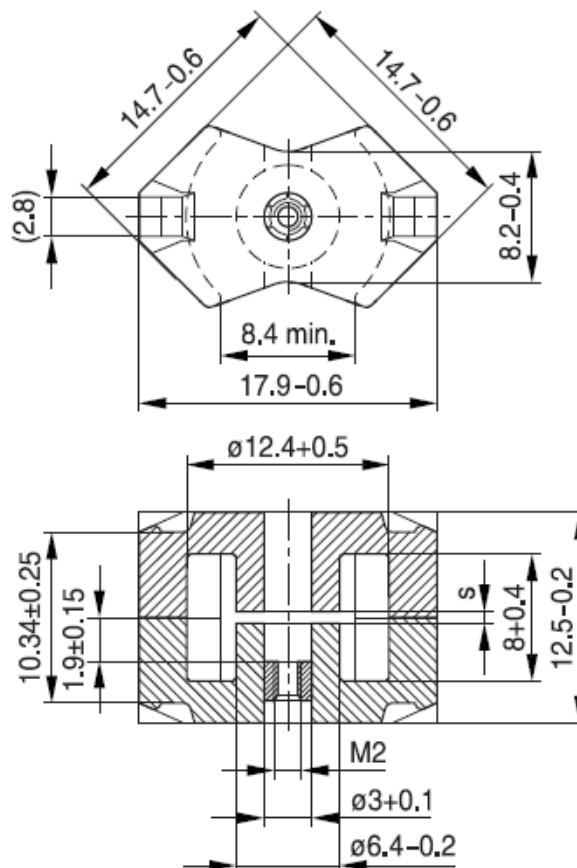
4.9 g/set

Type of delivery

In sets

Packing

Blister



Material	A_L value ¹⁾ nH	μ_e	Air gap mm	P_V max W/Set	Ordering code -N with threaded sleeve
N48	200 ±3%	137	app. 2x 0.09	-	B65807N0200A048
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1) Measurement parameter: 10 kHz, 0.25 mT, 100 turns, room temperature.

A_L value is measured acc. to IEC62044-2. An appropriate wiring of cores with polished surface is used to improve reproducibility of the measurement. (It is recommended to rub the mating surfaces themselves six times in a circular or elliptic arc that matches the core profile before measuring A_L value).

Cautions and warnings

Mechanical stress and mounting

Ferrite cores have to meet mechanical requirements during assembling and for a growing number of applications. Since ferrites are ceramic materials one has to be aware of the special behavior under mechanical load.

As valid for any ceramic material, ferrite cores are brittle and sensitive to any shock, fast changing or tensile load. Especially high cooling rates under ultrasonic cleaning and high static or cyclic loads can cause cracks or failure of the ferrite cores.

For detailed information see Data Book 2013, chapter "General – Definitions, 8.1".

Effects of core combination on AL value

Stresses in the core affect not only the mechanical but also the magnetic properties. It is apparent that the initial permeability is dependent on the stress state of the core. The higher the stresses are in the core, the lower is the value for the initial permeability. Thus the embedding medium should have the greatest possible elasticity.

For detailed information see Data Book 2013, chapter "General – Definitions, 8.2".

Heating up

Ferrites can run hot during operation at higher flux densities and higher frequencies.

NiZn-materials

The magnetic properties of NiZn-materials can change irreversible in high magnetic fields.

Processing notes

The start of the winding process should be soft. Else the flanges may be destroyed.

To strong winding forces may blast the flanges or squeeze the tube that the cores can no more be mount.

To long soldering time at high temperature (>300 °C) may effect coplanarity or pin arrangement.

Not following the processing notes for soldering of the J-leg terminals may cause solderability problems at the transformer because of pollution with Sn oxide of the tin bath or burned insulation of the wire. For detailed information see Data Book 2013, chapter "Processing notes, 2.2".

The dimensions of the hole arrangement have fixed values and should be understood as a recommendation for drilling the printed circuit board. For dimensioning the pins, the group of holes can only be seen under certain conditions, as they fit into the given hole arrangement. To avoid problems when mounting the transformer, the manufacturing tolerances for positioning the customers' drilling process must be considered by increasing the hole diameter.

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