



## Ferrites and accessories

### RM 10, RM 10 LP Core and accessories

**Series/Type:** B65813, B65814, B65679

**Date:** May 2017

The following products presented in this data sheet are being withdrawn.

| Ordering Code   | Substitute Product | Date of Withdrawal | Deadline Last Orders | Last Shipments |
|-----------------|--------------------|--------------------|----------------------|----------------|
| B65814B5000X000 |                    | 2018-06-08         | 2018-09-14           | 2018-12-14     |

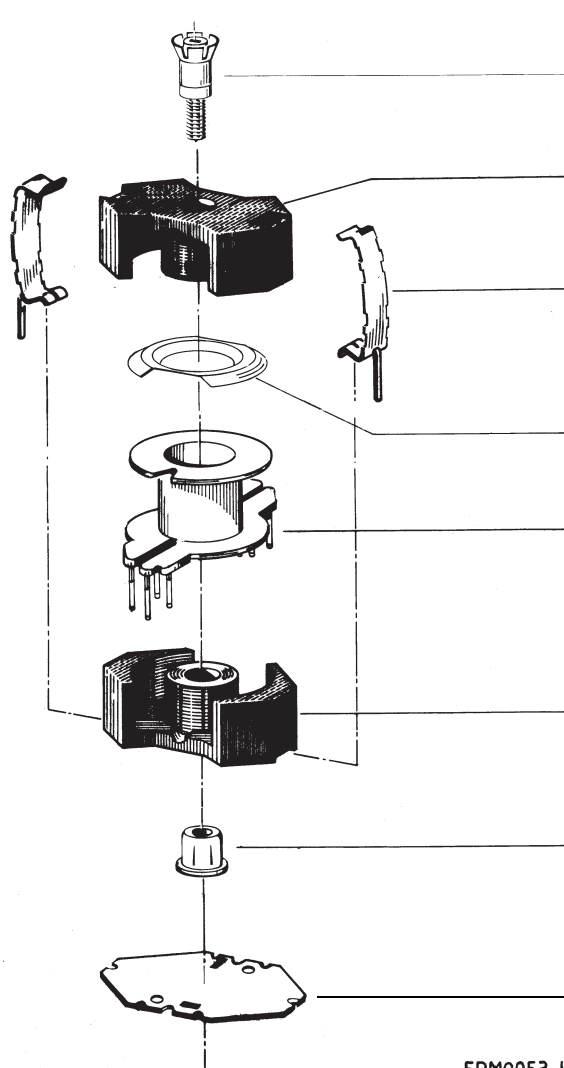
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## RM 10

### Core and accessories

| Individual parts                                                                   |                            | Part no. | Page |
|------------------------------------------------------------------------------------|----------------------------|----------|------|
|  | Adjusting screw            | B65679   | 8    |
|                                                                                    | Core                       | B65813   | 3    |
|                                                                                    | Clamps                     | B65814   | 7    |
|                                                                                    | Insulating washer 1        | B65814   | 7    |
|                                                                                    | Coil former                | B65814   | 5    |
|                                                                                    | Core                       | B65813   | 3    |
|                                                                                    | Threaded sleeve (glued-in) |          |      |
|                                                                                    | Insulating washer 2        | B65814   | 7    |

FRM0053-L

Example of an assembly set

#### Also available:

Coil former for  
power applications

B65814 6

RM 10 low-profile:

Core

B65813P 9

# RM 10

## Core

B65813

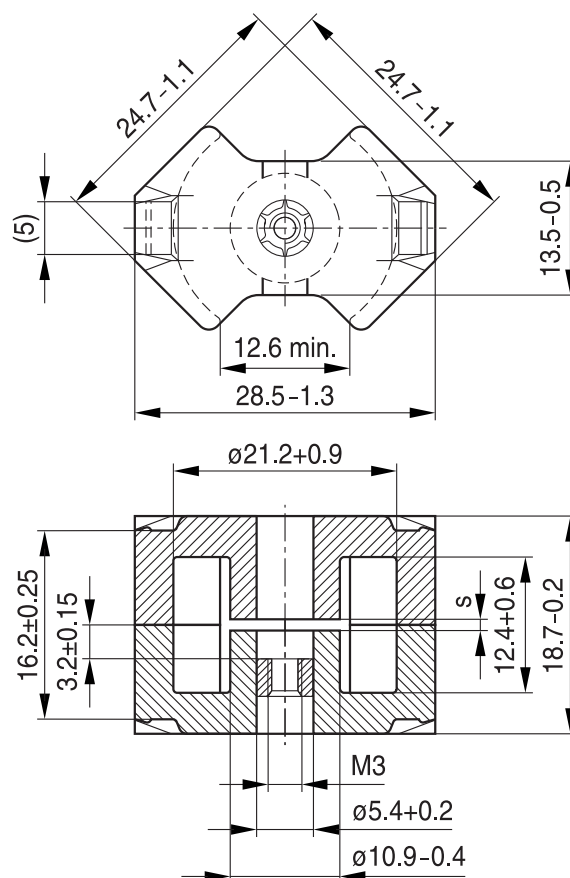
- To IEC 62317-4
- Cores without center hole for transformer applications
- Delivery mode: sets

### Magnetic characteristics (per set)

|              | with center hole | without center hole |                  |
|--------------|------------------|---------------------|------------------|
| $\Sigma l/A$ | 0.5              | 0.45                | $\text{mm}^{-1}$ |
| $l_e$        | 42               | 44                  | mm               |
| $A_e$        | 83               | 98                  | $\text{mm}^2$    |
| $A_{\min}$   | —                | 90                  | $\text{mm}^2$    |
| $V_e$        | 3490             | 4310                | $\text{mm}^3$    |

### Approx. weight (per set)

| m | 20.7 | 22 | g |
|---|------|----|---|
|---|------|----|---|



FRM0354-D

### Gapped ( $A_L$ values/air gaps examples)

| Material | $A_L$ value<br>nH                  | s<br>approx.<br>mm   | $\mu_e$          | Ordering code <sup>1)</sup><br>-D with center hole<br>-N with threaded sleeve<br>-J without center hole |
|----------|------------------------------------|----------------------|------------------|---------------------------------------------------------------------------------------------------------|
| N48      | 400 ± 3%<br>630 ± 3%               | 0.21<br>0.13         | 161<br>254       | B65813+0400A048<br>B65813+0630A048                                                                      |
| N41      | 250 ± 3%<br>630 ± 5%<br>1600 ± 10% | 0.44<br>0.13<br>0.04 | 89<br>225<br>572 | B65813J0250A041<br>B65813J0630J041<br>B65813J1600K041                                                   |

1) Replace the + by the code letter "D" or "N" for the required version.

**RM 10**
**Core**
**B65813**
**Ungapped**

| Material | A <sub>L</sub> value<br>nH | μ <sub>e</sub> | P <sub>V</sub><br>W/set          | Ordering code<br>-J without center hole |
|----------|----------------------------|----------------|----------------------------------|-----------------------------------------|
| N30      | 7600 +30/−20%              | 2720           |                                  | B65813J0000R030                         |
| T38      | 16000 +40/−30%             | 5720           |                                  | B65813J0000Y038                         |
| N49      | 2900 +30/−20%              | 1040           | < 0.75 ( 50 mT, 500 kHz, 100 °C) | B65813J0000R049                         |
| N87      | 4200 +30/−20%              | 1500           | < 2.30 (200 mT, 100 kHz, 100 °C) | B65813J0000R087                         |
| N97      | 4200 +30/−20%              | 1500           | < 2.00 (200 mT, 100 kHz, 100 °C) | B65813J0000R097                         |
| N41      | 5500 +30/−20%              | 1960           | < 0.80 (200 mT, 25 kHz, 100 °C)  | B65813J0000R041                         |
| N95      | 5500 +30/−20%              | 1960           | < 2.20 (200 mT, 100 kHz, 100 °C) | B65813J0000R095                         |

Other A<sub>L</sub> values/air gaps and materials available on request – see Processing remarks on page 10.

### Coil former

Material: GFR thermosetting plastic (UL 94 V-0, insulation class to IEC 60085:

F  $\triangleq$  max. operating temperature 155 °C), color code black

Sumikon PM 9630® [E41429 (M)], SUMITOMO BAKELITE CO LTD

Solderability: to IEC 60068-2-20, test Ta, method 1 (aging 3): 235 °C, 2 s

Resistance to soldering heat: to IEC 60068-2-20, test Tb, method 1B: 350 °C, 3.5 s

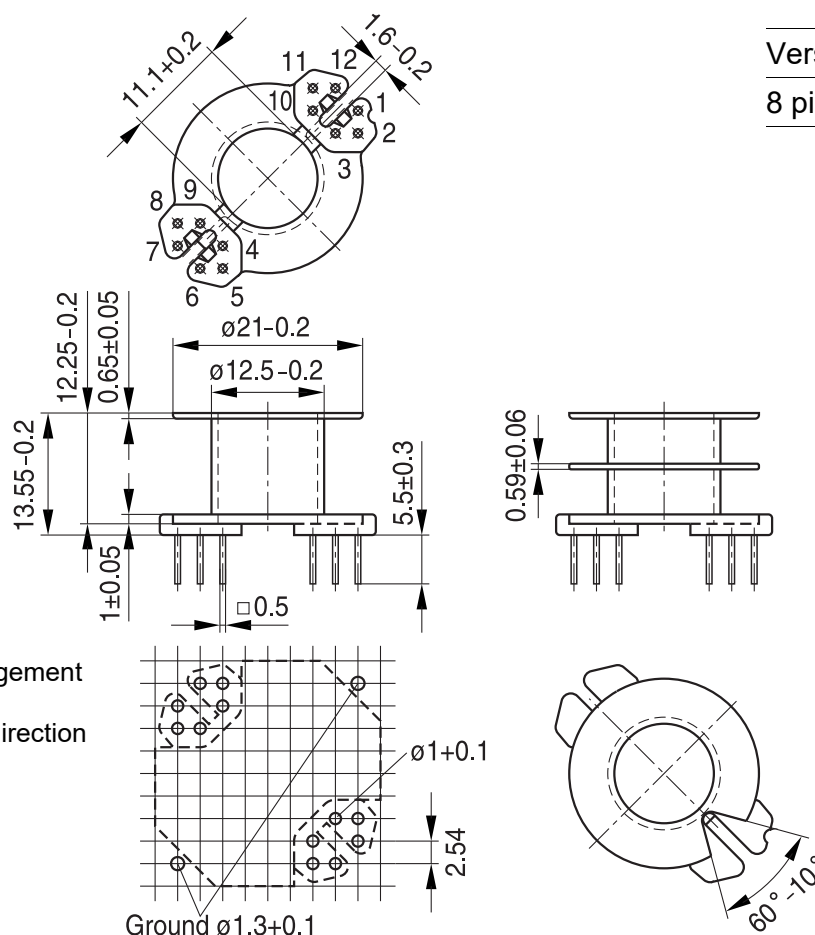
Winding: see Processing notes, 2.1

Pins: Squared pins

For matching clamp and insulating washers see page 7.

| Sections | $A_N$<br>mm <sup>2</sup> | $l_N$<br>mm | $A_R$ value<br>$\mu\Omega$ | Pins    | Ordering code                      |
|----------|--------------------------|-------------|----------------------------|---------|------------------------------------|
| 1        | 41.5                     | 52          | 43                         | 8<br>12 | B65814N1008D001<br>B65814N1012D001 |
| 2        | 39                       | 52          | 46                         | 8<br>12 | B65814N1008D002<br>B65814N1012D002 |

12 pins



| Version | Pins omitted |
|---------|--------------|
| 8 pins  | 2, 5, 8, 11  |

### Coil former for power applications

Optimized for automatic winding

Material: GFR polyterephthalate (UL 94 V-0, insulation class to IEC 60085:

$F \triangleq$  max. operating temperature 155 °C), color code black

Valox 420-SE0 [E45329 (M)] SABIC INNOVATIVE PLASTICS B V

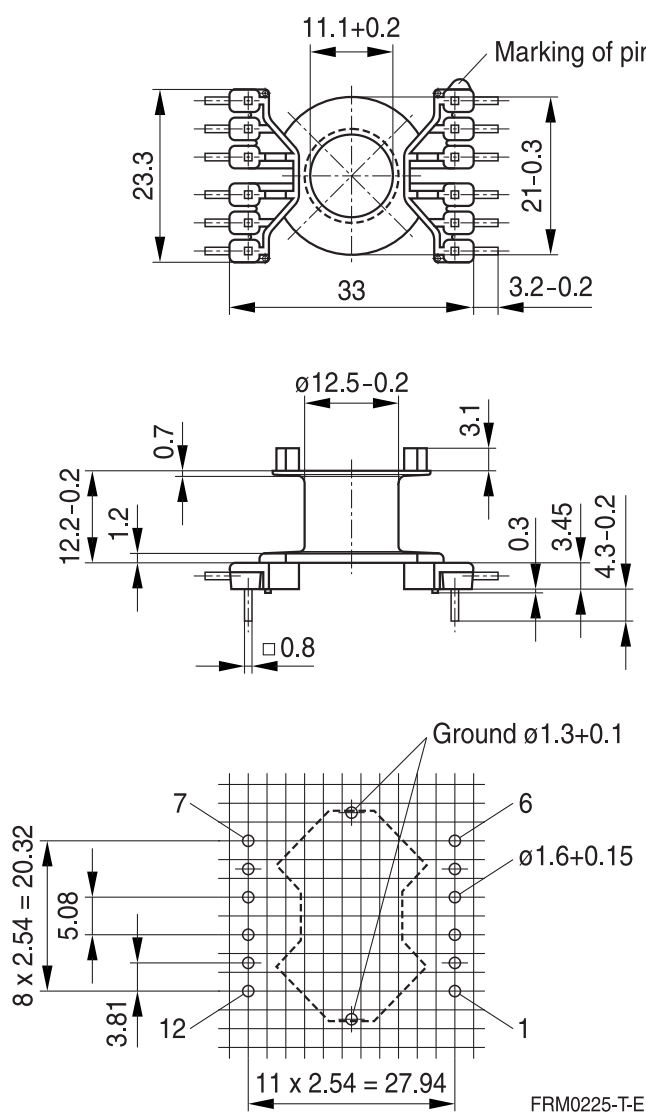
Solderability: to IEC 60068-2-20, test Ta, method 1 (aging 3): 235 °C, 2 s

Resistance to soldering heat: to IEC 60068-2-20, test Tb, method 1B: 350 °C, 3.5 s

Winding: see Processing notes, 2.1

For matching clamp and insulating washer 1 see page 7.

| Sections | $A_N$<br>mm <sup>2</sup> | $l_N$<br>mm | $A_R$ value<br>$\mu\Omega$ | Pins | Ordering code   |
|----------|--------------------------|-------------|----------------------------|------|-----------------|
| 1        | 41.5                     | 52          | 43                         | 12   | B65814C1512T001 |



Hole arrangement  
View in mounting direction  
(Note half pitch!)

### Clamp

- With ground terminal, made of spring steel (tinned), 0.4 mm thick
- Solderability to IEC 60068-2-20, test Ta, method 1 (aging 3): 235 °C, 2 s

### Insulating washer 1 between core and coil former

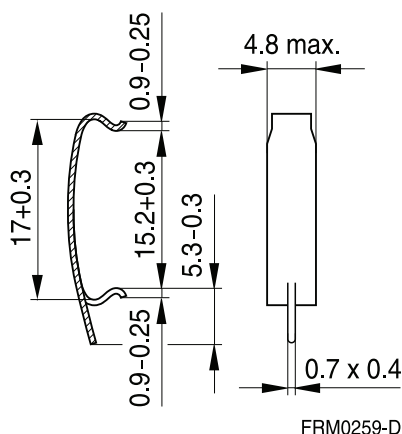
- For tolerance compensation and for insulation
- Made of polyarylate film (UL 94 V-0, insulation class to IEC 60085: E  $\triangleq$  120 °C), 0.08 mm thick  
Aryphan F685, [E167358 (M)], natural color, LOFO HIGH TECH FILM GMBH

### Insulating washer 2 for double-clad PCBs

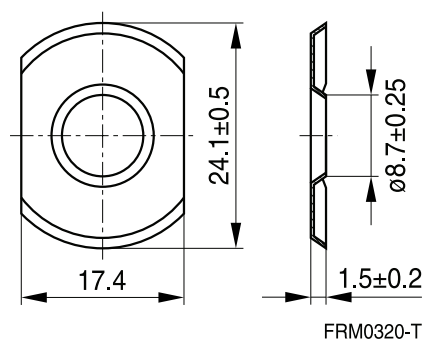
- Made of polycarbonate (UL 94 V-0, insulation class to IEC 60085: E  $\triangleq$  120 °C), 0.25 mm thick  
Makrofol FR7-2 [E168120 (M)], COVESTRO AG

|                                                 | Ordering code   |
|-------------------------------------------------|-----------------|
| Clamp (ordering code per piece, 2 are required) | B65814B2203X000 |
| Insulating washer 1 (reel packing, PU = 1 reel) | B65814B5000X000 |
| Insulating washer 2 (bulk)                      | B65814B2005X000 |

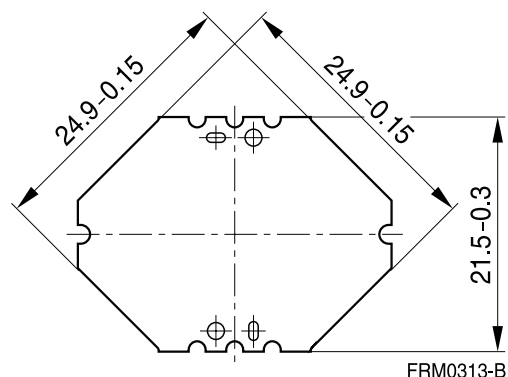
### Clamp



### Insulating washer 1



### Insulating washer 2



## RM 10

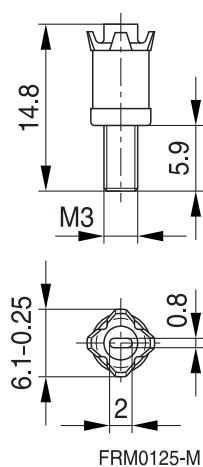
### Accessories

B65679

#### Adjusting screw

- Tube core with thread and core brake made of GFR polyterephthalate  
Pocan B3235® [E245249 (M)], LANXESS AG

| Tube core<br>Ø × length (mm) | Material | Color code | Ordering code   |
|------------------------------|----------|------------|-----------------|
| 4.55 × 6.3                   | N22      | red        | B65679E0003X022 |
| 4.98 × 6.3                   | N22      | black      | B65679E0002X022 |



# RM 10 »Low Profile«

## Core

B65813P

- To IEC 62317-4
- For compact transformers
- Without center hole
- Delivery mode: sets

### Magnetic characteristics (per set)

$$\Sigma l/A = 0.34 \text{ mm}^{-1}$$

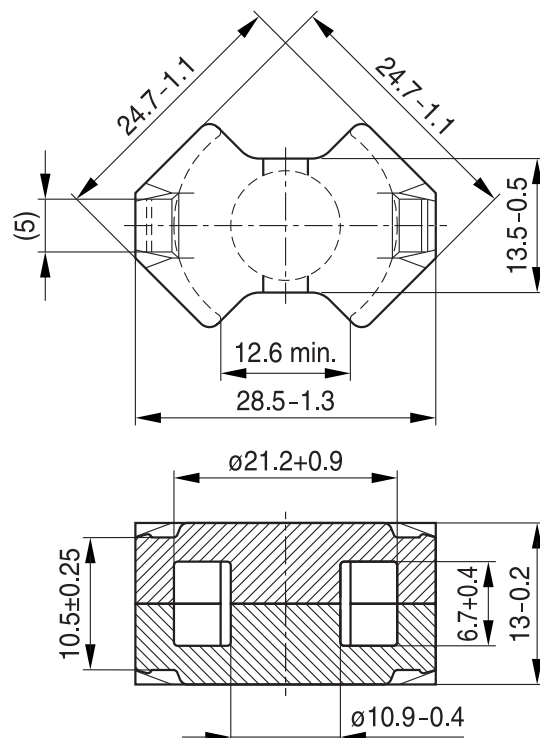
$$l_e = 33.9 \text{ mm}$$

$$A_e = 99.1 \text{ mm}^2$$

$$A_{\min} = 90.0 \text{ mm}^2$$

$$V_e = 3360 \text{ mm}^3$$

Approx. weight 17.2 g/set



### Ungapped

| Material | $A_L$ value<br>nH | $\mu_e$ | $P_V$<br>W/set                   | Ordering code   |
|----------|-------------------|---------|----------------------------------|-----------------|
| N49      | 3700 +30/-20%     | 1000    | < 0.62 ( 50 mT, 500 kHz, 100 °C) | B65813P0000R049 |
| N92      | 4000 +30/-20%     | 1090    | < 1.90 (200 mT, 100 kHz, 100 °C) | B65813P0000R092 |
| N87      | 5200 +30/-20%     | 1410    | < 1.72 (200 mT, 100 kHz, 100 °C) | B65813P0000R087 |

Other  $A_L$  values/air gaps and materials available on request — see Processing remarks on page 10.

## Ferrites and accessories

### 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 temperature 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, chapter “*General - Definitions, 8.1*”.

#### Effects of core combination on $A_L$ 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, chapter “*General - Definitions, 8.1*”.

#### 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.

#### Ferrite Accessories

EPCOS ferrite accessories have been designed and evaluated only in combination with EPCOS ferrite cores. EPCOS explicitly points out that EPCOS ferrite accessories or EPCOS ferrite cores may not be compatible with those of other manufacturers. Any such combination requires prior testing by the customer and will be at the customer's own risk.

EPCOS assumes no warranty or reliability for the combination of EPCOS ferrite accessories with cores and other accessories from any other manufacturer.

#### Processing remarks

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

- Too strong winding forces may blast the flanges or squeeze the tube that the cores can not be mounted any more.
- Too 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 oxyde of the tin bath or burned insulation of the wire. For detailed information see chapter “*Processing notes*”, section 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.

## Ferrites and accessories

### Cautions and warnings

#### Display of ordering codes for EPCOS products

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## Ferrites and accessories

### Symbols and terms

| Symbol              | Meaning                                                         | Unit                         |
|---------------------|-----------------------------------------------------------------|------------------------------|
| A                   | Cross section of coil                                           | mm <sup>2</sup>              |
| A <sub>e</sub>      | Effective magnetic cross section                                | mm <sup>2</sup>              |
| A <sub>L</sub>      | Inductance factor; $A_L = L/N^2$                                | nH                           |
| A <sub>L1</sub>     | Minimum inductance at defined high saturation ( $\cong \mu_a$ ) | nH                           |
| A <sub>min</sub>    | Minimum core cross section                                      | mm <sup>2</sup>              |
| A <sub>N</sub>      | Winding cross section                                           | mm <sup>2</sup>              |
| A <sub>R</sub>      | Resistance factor; $A_R = R_{Cu}/N^2$                           | $\mu\Omega = 10^{-6} \Omega$ |
| B                   | RMS value of magnetic flux density                              | Vs/m <sup>2</sup> , mT       |
| $\Delta B$          | Flux density deviation                                          | Vs/m <sup>2</sup> , mT       |
| $\hat{B}$           | Peak value of magnetic flux density                             | Vs/m <sup>2</sup> , mT       |
| $\Delta \hat{B}$    | Peak value of flux density deviation                            | Vs/m <sup>2</sup> , mT       |
| B <sub>DC</sub>     | DC magnetic flux density                                        | Vs/m <sup>2</sup> , mT       |
| B <sub>R</sub>      | Remanent flux density                                           | Vs/m <sup>2</sup> , mT       |
| B <sub>S</sub>      | Saturation magnetization                                        | Vs/m <sup>2</sup> , mT       |
| C <sub>0</sub>      | Winding capacitance                                             | F = As/V                     |
| CDF                 | Core distortion factor                                          | mm <sup>-4.5</sup>           |
| DF                  | Relative disaccommodation coefficient $DF = d/\mu_i$            |                              |
| d                   | Disaccommodation coefficient                                    |                              |
| E <sub>a</sub>      | Activation energy                                               | J                            |
| f                   | Frequency                                                       | s <sup>-1</sup> , Hz         |
| f <sub>cutoff</sub> | Cut-off frequency                                               | s <sup>-1</sup> , Hz         |
| f <sub>max</sub>    | Upper frequency limit                                           | s <sup>-1</sup> , Hz         |
| f <sub>min</sub>    | Lower frequency limit                                           | s <sup>-1</sup> , Hz         |
| f <sub>r</sub>      | Resonance frequency                                             | s <sup>-1</sup> , Hz         |
| f <sub>Cu</sub>     | Copper filling factor                                           |                              |
| g                   | Air gap                                                         | mm                           |
| H                   | RMS value of magnetic field strength                            | A/m                          |
| $\hat{H}$           | Peak value of magnetic field strength                           | A/m                          |
| H <sub>DC</sub>     | DC field strength                                               | A/m                          |
| H <sub>c</sub>      | Coercive field strength                                         | A/m                          |
| h                   | Hysteresis coefficient of material                              | 10 <sup>-6</sup> cm/A        |
| h/ $\mu_i^2$        | Relative hysteresis coefficient                                 | 10 <sup>-6</sup> cm/A        |
| I                   | RMS value of current                                            | A                            |
| I <sub>DC</sub>     | Direct current                                                  | A                            |
| $\hat{I}$           | Peak value of current                                           | A                            |
| J                   | Polarization                                                    | Vs/m <sup>2</sup>            |
| k                   | Boltzmann constant                                              | J/K                          |
| k <sub>3</sub>      | Third harmonic distortion                                       |                              |
| k <sub>3c</sub>     | Circuit third harmonic distortion                               |                              |
| L                   | Inductance                                                      | H = Vs/A                     |

## Ferrites and accessories

### Symbols and terms

| Symbol              | Meaning                                                          | Unit               |
|---------------------|------------------------------------------------------------------|--------------------|
| $\Delta L/L$        | Relative inductance change                                       | H                  |
| $L_0$               | Inductance of coil without core                                  | H                  |
| $L_H$               | Main inductance                                                  | H                  |
| $L_p$               | Parallel inductance                                              | H                  |
| $L_{rev}$           | Reversible inductance                                            | H                  |
| $L_s$               | Series inductance                                                | H                  |
| $l_e$               | Effective magnetic path length                                   | mm                 |
| $l_N$               | Average length of turn                                           | mm                 |
| $N$                 | Number of turns                                                  |                    |
| $P_{Cu}$            | Copper (winding) losses                                          | W                  |
| $P_{trans}$         | Transferrable power                                              | W                  |
| $P_V$               | Relative core losses                                             | mW/g               |
| PF                  | Performance factor                                               |                    |
| $Q$                 | Quality factor ( $Q = \omega L/R_s = 1/\tan \delta_L$ )          |                    |
| $R$                 | Resistance                                                       | $\Omega$           |
| $R_{Cu}$            | Copper (winding) resistance ( $f = 0$ )                          | $\Omega$           |
| $R_h$               | Hysteresis loss resistance of a core                             | $\Omega$           |
| $\Delta R_h$        | $R_h$ change                                                     | $\Omega$           |
| $R_i$               | Internal resistance                                              | $\Omega$           |
| $R_p$               | Parallel loss resistance of a core                               | $\Omega$           |
| $R_s$               | Series loss resistance of a core                                 | $\Omega$           |
| $R_{th}$            | Thermal resistance                                               | K/W                |
| $R_V$               | Effective loss resistance of a core                              | $\Omega$           |
| $s$                 | Total air gap                                                    | mm                 |
| $T$                 | Temperature                                                      | $^{\circ}\text{C}$ |
| $\Delta T$          | Temperature difference                                           | K                  |
| $T_C$               | Curie temperature                                                | $^{\circ}\text{C}$ |
| $t$                 | Time                                                             | s                  |
| $t_v$               | Pulse duty factor                                                |                    |
| $\tan \delta$       | Loss factor                                                      |                    |
| $\tan \delta_L$     | Loss factor of coil                                              |                    |
| $\tan \delta_r$     | (Residual) loss factor at $H \rightarrow 0$                      |                    |
| $\tan \delta_e$     | Relative loss factor                                             |                    |
| $\tan \delta_h$     | Hysteresis loss factor                                           |                    |
| $\tan \delta/\mu_i$ | Relative loss factor of material at $H \rightarrow 0$            |                    |
| $U$                 | RMS value of voltage                                             | V                  |
| $\hat{U}$           | Peak value of voltage                                            | V                  |
| $V_e$               | Effective magnetic volume                                        | mm <sup>3</sup>    |
| $Z$                 | Complex impedance                                                | $\Omega$           |
| $Z_n$               | Normalized impedance $ Z _n =  Z /N^2 \times \epsilon (l_e/A_e)$ | $\Omega/\text{mm}$ |

## Ferrites and accessories

### Symbols and terms

| Symbol       | Meaning                                                                      | Unit                              |
|--------------|------------------------------------------------------------------------------|-----------------------------------|
| $\alpha$     | Temperature coefficient (TK)                                                 | 1/K                               |
| $\alpha_F$   | Relative temperature coefficient of material                                 | 1/K                               |
| $\alpha_e$   | Temperature coefficient of effective permeability                            | 1/K                               |
| $\epsilon_r$ | Relative permittivity                                                        |                                   |
| $\Phi$       | Magnetic flux                                                                | Vs                                |
| $\eta$       | Efficiency of a transformer                                                  |                                   |
| $\eta_B$     | Hysteresis material constant                                                 | mT <sup>-1</sup>                  |
| $\eta_i$     | Hysteresis core constant                                                     | A <sup>-1</sup> H <sup>-1/2</sup> |
| $\lambda_s$  | Magnetostriction at saturation magnetization                                 |                                   |
| $\mu$        | Relative complex permeability                                                |                                   |
| $\mu_0$      | Magnetic field constant                                                      | Vs/Am                             |
| $\mu_a$      | Relative amplitude permeability                                              |                                   |
| $\mu_{app}$  | Relative apparent permeability                                               |                                   |
| $\mu_e$      | Relative effective permeability                                              |                                   |
| $\mu_i$      | Relative initial permeability                                                |                                   |
| $\mu_p'$     | Relative real (inductive) component of $\bar{\mu}$ (for parallel components) |                                   |
| $\mu_p''$    | Relative imaginary (loss) component of $\bar{\mu}$ (for parallel components) |                                   |
| $\mu_r$      | Relative permeability                                                        |                                   |
| $\mu_{rev}$  | Relative reversible permeability                                             |                                   |
| $\mu_s'$     | Relative real (inductive) component of $\bar{\mu}$ (for series components)   |                                   |
| $\mu_s''$    | Relative imaginary (loss) component of $\bar{\mu}$ (for series components)   |                                   |
| $\mu_{tot}$  | Relative total permeability<br>derived from the static magnetization curve   |                                   |
| $\rho$       | Resistivity                                                                  | $\Omega m^{-1}$                   |
| $\Sigma l/A$ | Magnetic form factor                                                         | mm <sup>-1</sup>                  |
| $\tau_{Cu}$  | DC time constant $\tau_{Cu} = L/R_{Cu} = A_L/A_R$                            | s                                 |
| $\omega$     | Angular frequency; $\omega = 2 \pi f$                                        | s <sup>-1</sup>                   |

All dimensions are given in mm.



Surface-mount device

## 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**. As a rule we are either unfamiliar with individual customer applications or less familiar with them than the customers themselves. For these reasons, it is always ultimately incumbent on the customer to check and decide whether a product with the properties described in the product specification is suitable for use in a particular customer application.
2. We also point out that **in individual cases, a malfunction of electronic components or failure before the end of their usual service life cannot be completely ruled out in the current state of the art, even if they are operated as specified**. In customer applications requiring a very high level of operational safety and especially in customer applications in which the malfunction or failure of an electronic component could endanger human life or health (e.g. in accident prevention or life-saving systems), it must therefore be ensured by means of suitable design of the customer application or other action taken by the customer (e.g. installation of protective circuitry or redundancy) that no injury or damage is sustained by third parties in the event of malfunction or failure of an electronic component.
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