



Ferrites and accessories

RM 5, RM 5 LP Core and accessories

Series/Type: B65805, B65806, B65822, B65539, B65518

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The following products presented in this data sheet are being withdrawn.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 |
|-----------------|--------------------|--------------------|----------------------|----------------|
| B65806A5000X000 | | 2018-06-08 | 2018-09-14 | 2018-12-14 |

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RM 5

Core and accessories

| Individual parts | Part no. | Page |
|----------------------------|----------------------------|------|
| Adjusting screw | B65518 B65539 B65806 | 9 |
| Core | B65805 | 3 |
| Clamps | B65806 | 6 |
| Insulating washer 1 | B65806 | 6 |
| Coil former | B65806 | 5 |
| Core | B65805 | 3 |
| Threaded sleeve (glued-in) | | |
| Insulating washer 2 | B65806 | 6 |

FRM0005-2

Example of an assembly set

Also available:

| | | |
|--------------------------|---------|------|
| SMD coil formers | B65822 | 7, 8 |
| Clamps | B65806 | 7, 8 |
| <u>RM 5 low profile:</u> | | |
| Core | B65805P | 10 |

| |
|---------------|
| RM 5 |
| Core |
| B65805 |

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

Magnetic characteristics (per set)

| | with center hole | without center hole | |
|--------------|------------------|---------------------|------------------|
| $\Sigma l/A$ | 1.0 | 0.93 | mm^{-1} |
| l_e | 20.8 | 22.1 | mm |
| A_e | 20.8 | 23.8 | mm^2 |
| A_{\min} | — | 18 | mm^2 |
| V_e | 433 | 526 | mm^3 |

Approx. weight (per set)

| m | 2.9 | 3.0 | g |
|---|-----|-----|---|
| | | | |



Gapped (A_L values/air gaps examples)

| Material | A_L value | s approx. mm | μ_e | Ordering code ¹⁾ -C with center hole -N with threaded sleeve |
|----------|-------------|--------------------|---------|---|
| | nH | | | |
| K1 | 25 ±3% | 1.0 | 19.9 | B65805+0025A001 |
| | 40 ±3% | 0.40 | 31.8 | B65805+0040A001 |
| M33 | 63 ±3% | 0.4 | 50.2 | B65805+0063A033 |
| | 100 ±3% | 0.2 | 79.6 | B65805+0100A033 |
| N48 | 160 ±3% | 0.12 | 127 | B65805+0160A048 |
| | 250 ±3% | 0.06 | 199 | B65805+0250A048 |
| | 315 ±3% | 0.03 | 251 | B65805+0315A048 |

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

RM 5
Core
B65805
Ungapped

| Material | A _L value nH | μ _e | P _V W/set | Ordering code -C with center hole -J without center hole |
|----------|----------------------------|----------------|----------------------------------|--|
| N48 | 1800 +30/-20% | 1430 | | B65805C0000R048 |
| N45 | 2600 +30/-20% | 1920 | | B65805J0000R045 |
| N30 | 3500 +30/-20% | 2590 | | B65805J0000R030 |
| T38 | 6700 +40/-30% | 4950 | | B65805J0000Y038 |
| T66 | 9600 +40/-30% | 7090 | | B65805J0000Y066 |
| N49 | 1300 +30/-20% | 960 | < 0.06 (50 mT, 500 kHz, 100 °C) | B65805J0000R049 |
| N87 | 2000 +30/-20% | 1480 | < 0.32 (200 mT, 100 kHz, 100 °C) | B65805J0000R087 |
| N97 | 2000 +30/-20% | 1480 | < 0.24 (200 mT, 100 kHz, 100 °C) | B65805J0000R097 |
| N41 | 2600 +30/-20% | 1920 | < 0.10 (200 mT, 25 kHz, 100 °C) | B65805J0000R041 |

Other A_L values/air gaps and materials available on request — see Processing remarks on page 11.

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

For matching clamps and insulating washers see page 6.

| Sections | A_N mm ² | l_N mm | A_R value $\mu\Omega$ | Pins | Ordering code |
|----------|--------------------------|-------------|----------------------------|------------------|--|
| 1 | 9.5 | 25 | 90 | 4 5 6 8 | B65806N1104D001 B65806N1105D001 B65806N1106D001 B65806N1108D001 |
| 2 | 8.7 | 25 | 94 | 6 | B65806N1106D002 |



Clamp

- With ground terminal, made of stainless spring steel (tinned), 0.3 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 \geq 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 \geq 120 °C), 0.25 mm thick Makrofol FR7-2 [E168120 (M)], COVESTRO AG

| | Ordering code |
|---|-----------------|
| Clamp (ordering code per piece, 2 are required) | B65806B2203X000 |
| Insulating washer 1 (reel packing, PU = 1 reel) | B65806A5000X000 |
| Insulating washer 2 (bulk) | B65806D2005X000 |

Clamp
Insulating washer 1
Insulating washer 2

Clamping forces for RM 5


F_{min} : Extension of clamp from a to $a_2 = X_{min}$
 F_{max} : Extension of clamp from a to $a_1 = X_{max}$

| | |
|----------------------------|----------------------------------|
| Clamp opening a (mm) | 8.3 +0.15 |
| Core nose Z_{max} (mm) | 0.15 |
| Height of core pair X (mm) | X_{min} 8.75 X_{max} 9.25 |
| Clamping force F (N) | F_{min} 5 F_{max} 40 |

SMD coil former with gullwing terminals

Material: GFR liquid crystal polymer (UL 94 V-0, insulation class to IEC 60085:
 $F \triangleq$ max. operating temperature 155 °C), color code black
 Vectra C 130 [E83005 (M)], CELANESE INTERNATIONAL CORP.

Solderability: to IEC 60068-2-58, test Td, method 6 (Group 3): 245 °C, 3 s

Resistance to soldering heat: to IEC 60068-2-58, test Td, method 6 (Group 3): 255 °C, 10 s
 permissible soldering temperature for wire-wrap connection on coil former: 400 °C, 1 s

Winding: see Processing notes, 2.1

Clamp

■ Without ground terminal, made of stainless spring steel, 0.335 mm thick

| Sections | A_N mm ² | l_N mm | A_R value $\mu\Omega$ | Terminals | Ordering code |
|--|--------------------------|-------------|----------------------------|-----------|-----------------|
| 1 | 11.1 | 25 | 77 | 8 | B65822F1008T001 |
| 2 | 10.2 | 25 | 85 | 8 | B65822F1008T002 |
| Clamp(ordering code per piece, 2 are required) | | | | | B65806J2204X000 |

Coil former

Clamp


SMD coil former with J terminals

Material: GFR liquid crystal polymer (UL 94 V-0, insulation class to IEC 60085:
 $F \triangleq$ max. operating temperature 155 °C), color code black
 Vectra C 130 [E83005 (M)], CELANESE INTERNATIONAL CORP.

Solderability: to IEC 60068-2-58, test Td, method 6 (Group 3): 245 °C, 3 s

Resistance to soldering heat: to IEC 60068-2-58, test Td, method 6 (Group 3): 255 °C, 10 s
 permissible soldering temperature for wire-wrap connection on coil former: 400 °C, 1 s

Winding: see Processing notes, 2.1

Clamp

- Without ground terminal, made of stainless spring steel, 0.335 mm thick

| Sections | A_N mm ² | l_N mm | A_R value $\mu\Omega$ | Terminals | Ordering code |
|--|--------------------------|-------------|----------------------------|-----------|-----------------|
| 1 | 11.1 | 25 | 73 | 8 | B65822J1008T001 |
| Clamp(ordering code per piece, 2 are required) | | | | | B65806J2204X000 |

Coil former

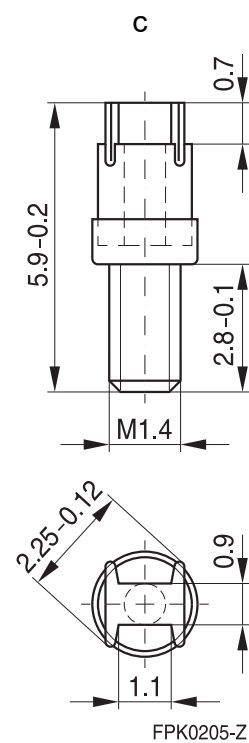
Clamp

Recommended PCB layout


Adjusting screw

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

| Figure | Tube core ∅ × length (mm) | Material | Color code | Ordering code |
|--------|------------------------------|----------|------------|-----------------|
| a | 1.81 × 2.0 | K1 | yellow | B65539C1003X001 |
| a | 1.81 × 2.7 | N22 | red | B65539C1002X022 |
| b | 1.81 × 3.4 | N22 | green | B65806C3001X022 |
| c | 1.81 × 2.0 | K1 | blue | B65518C3000X001 |



RM 5 »Low Profile«
Core
B65805P

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

Magnetic characteristics (per set)

$$\Sigma l/A = 0.71 \text{ mm}^{-1}$$

$$l_e = 17.5 \text{ mm}$$

$$A_e = 24.5 \text{ mm}^2$$

$$A_{\min} = 18 \text{ mm}^2$$

$$V_e = 430 \text{ mm}^3$$

Approx. weight 2.6 g/set


FRM0347-V

Ungapped

| Material | A_L value nH | μ_e | P_V W/set | Ordering code |
|----------|-------------------|---------|----------------------------------|-----------------|
| T38 | 7700 +40/-30% | 4380 | | B65805P0000Y038 |
| N49 | 1700 +30/-20% | 970 | < 0.09 (50 mT, 500 kHz, 100 °C) | B65805P0000R049 |
| N92 | 1900 +30/-20% | 1080 | < 0.29 (200 mT, 100 kHz, 100 °C) | B65805P0000R092 |
| N87 | 2400 +30/-20% | 1360 | < 0.26 (200 mT, 100 kHz, 100 °C) | B65805P0000R087 |

 Other A_L values/air gaps and materials available on request — see Processing remarks on page 11.

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.

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Ferrites and accessories

Symbols and terms

| Symbol | Meaning | Unit |
|---------------------|---|------------------------------|
| A | Cross section of coil | mm ² |
| A _e | Effective magnetic cross section | mm ² |
| A _L | Inductance factor; $A_L = L/N^2$ | nH |
| A _{L1} | Minimum inductance at defined high saturation ($\hat{=} \mu_a$) | nH |
| A _{min} | Minimum core cross section | mm ² |
| A _N | Winding cross section | mm ² |
| A _R | Resistance factor; $A_R = R_{Cu}/N^2$ | $\mu\Omega = 10^{-6} \Omega$ |
| B | RMS value of magnetic flux density | Vs/m ² , mT |
| ΔB | Flux density deviation | Vs/m ² , mT |
| \hat{B} | Peak value of magnetic flux density | Vs/m ² , mT |
| $\Delta \hat{B}$ | Peak value of flux density deviation | Vs/m ² , mT |
| B _{DC} | DC magnetic flux density | Vs/m ² , mT |
| B _R | Remanent flux density | Vs/m ² , mT |
| B _S | Saturation magnetization | Vs/m ² , mT |
| C ₀ | Winding capacitance | F = As/V |
| CDF | Core distortion factor | mm ^{-4.5} |
| DF | Relative disaccommodation coefficient $DF = d/\mu_i$ | |
| d | Disaccommodation coefficient | |
| E _a | Activation energy | J |
| f | Frequency | s ⁻¹ , Hz |
| f _{cutoff} | Cut-off frequency | s ⁻¹ , Hz |
| f _{max} | Upper frequency limit | s ⁻¹ , Hz |
| f _{min} | Lower frequency limit | s ⁻¹ , Hz |
| f _r | Resonance frequency | s ⁻¹ , Hz |
| f _{Cu} | 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 _{DC} | DC field strength | A/m |
| H _c | Coercive field strength | A/m |
| h | Hysteresis coefficient of material | 10 ⁻⁶ cm/A |
| h/μ_i^2 | Relative hysteresis coefficient | 10 ⁻⁶ cm/A |
| I | RMS value of current | A |
| I _{DC} | Direct current | A |
| \hat{I} | Peak value of current | A |
| J | Polarization | Vs/m ² |
| k | Boltzmann constant | J/K |
| k ₃ | Third harmonic distortion | |
| k _{3c} | 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 | Ω |
| R_{Cu} | Copper (winding) resistance ($f = 0$) | Ω |
| R_h | Hysteresis loss resistance of a core | Ω |
| ΔR_h | R_h change | Ω |
| R_i | Internal resistance | Ω |
| R_p | Parallel loss resistance of a core | Ω |
| R_s | Series loss resistance of a core | Ω |
| R_{th} | Thermal resistance | K/W |
| R_V | Effective loss resistance of a core | Ω |
| s | Total air gap | mm |
| T | Temperature | $^{\circ}\text{C}$ |
| ΔT | 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^3 |
| Z | Complex impedance | Ω |
| Z_n | Normalized impedance $ Z _n = Z / N^2 \times \epsilon (l_e/A_e)$ | Ω/mm |

Ferrites and accessories

Symbols and terms

| Symbol | Meaning | Unit |
|--------------|--|-----------------------------------|
| α | Temperature coefficient (TK) | 1/K |
| α_F | Relative temperature coefficient of material | 1/K |
| α_e | Temperature coefficient of effective permeability | 1/K |
| ϵ_r | Relative permittivity | |
| Φ | Magnetic flux | Vs |
| η | Efficiency of a transformer | |
| η_B | Hysteresis material constant | mT ⁻¹ |
| η_i | Hysteresis core constant | A ⁻¹ H ^{-1/2} |
| λ_s | Magnetostriction at saturation magnetization | |
| μ | Relative complex permeability | |
| μ_0 | Magnetic field constant | Vs/Am |
| μ_a | Relative amplitude permeability | |
| μ_{app} | Relative apparent permeability | |
| μ_e | Relative effective permeability | |
| μ_i | Relative initial permeability | |
| μ_p' | Relative real (inductive) component of $\bar{\mu}$ (for parallel components) | |
| μ_p'' | Relative imaginary (loss) component of $\bar{\mu}$ (for parallel components) | |
| μ_r | Relative permeability | |
| μ_{rev} | Relative reversible permeability | |
| μ_s' | Relative real (inductive) component of $\bar{\mu}$ (for series components) | |
| μ_s'' | Relative imaginary (loss) component of $\bar{\mu}$ (for series components) | |
| μ_{tot} | Relative total permeability derived from the static magnetization curve | |
| ρ | Resistivity | Ωm^{-1} |
| $\Sigma l/A$ | Magnetic form factor | mm^{-1} |
| τ_{Cu} | DC time constant $\tau_{Cu} = L/R_{Cu} = A_L/A_R$ | s |
| ω | Angular frequency; $\omega = 2 \Pi f$ | s ⁻¹ |

All dimensions are given in mm.

SMD Surface-mount device

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- При необходимости вся продукция военного и аэрокосмического назначения проходит испытания и сертификацию в лаборатории (по согласованию с заказчиком);
- Поставка специализированных компонентов военного и аэрокосмического уровня качества (Xilinx, Altera, Analog Devices, Intersil, Interpoint, Microsemi, Actel, Aeroflex, Peregrine, VPT, Syfer, Eurofarad, Texas Instruments, MS Kennedy, Miteq, Cobham, E2V, MA-COM, Hittite, Mini-Circuits, General Dynamics и др.);

Компания «Океан Электроники» является официальным дистрибьютором и эксклюзивным представителем в России одного из крупнейших производителей разъемов военного и аэрокосмического назначения «JONHON», а так же официальным дистрибьютором и эксклюзивным представителем в России производителя высокотехнологичных и надежных решений для передачи СВЧ сигналов «FORSTAR».



JONHON

«JONHON» (основан в 1970 г.)

Разъемы специального, военного и аэрокосмического назначения:

(Применяются в военной, авиационной, аэрокосмической, морской, железнодорожной, горно- и нефтедобывающей отраслях промышленности)

«FORSTAR» (основан в 1998 г.)

ВЧ соединители, коаксиальные кабели, кабельные сборки и микроволновые компоненты:

(Применяются в телекоммуникациях гражданского и специального назначения, в средствах связи, РЛС, а так же военной, авиационной и аэрокосмической отраслях промышленности).



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