



**THE DATASHEET OF
DFK-33-0002**



Magnetically Compensated Choke, 1- and 3-phase



See below:

Approvals and Compliances

Description

- Current compensated choke
- 1- or 3-phase choke
- THT terminals or wire leads
- Flange for mounting onto printed circuit board
- Fully potted resign

Applications

- Attenuation of common mode interferences
- May also be used in direct current applications where magnetic compensation is required
- Designed for 230/400 VAC applications

References

Weblinks

[pdf data sheet](#), [html datasheet](#), [General Product Information](#), [Approvals](#), [Distributor-Stock-Check](#), [Detailed request for product](#)

Technical Data

| | | | |
|---------------------------|--------------------------|---------------------------|--|
| Rated voltage | up to 440VAC | Test Voltage | 1.8kV, 50Hz, 1 min. winding to winding |
| Rated Current | 0.5 - 15A @ Ta 40 °C | Isolation Voltage | 2kV eff., winding to ambient |
| Rated inductance | 1 - 20mH, Tol. -30% +50% | Climatic Category | 25/100/21 acc. to IEC 60068-1 |
| Power Operating Frequency | 50 - 400Hz | Allowable Operation Temp. | -25°C to 100°C |
| Terminal Type | THT, Flexible wire | | |
| Weight | 6 - 163g | | |
| Material | UL 94V-0 | | |
| Sealing Compound | UL 94V-0 | | |

Approvals and Compliances

Detailed information on product approvals, code requirements, usage instructions and detailed test conditions can be looked up in [Details about Approvals](#)

SCHURTER products are designed for use in industrial environments. They have approvals from independent testing bodies according to national and international standards. Products with specific characteristics and requirements such as required in the automotive sector according to IATF 16949, medical technology according to ISO 13485 or in the aerospace industry can be offered exclusively with customer-specific, individual agreements by SCHURTER.

Approvals

The approval mark is used by the testing authorities to certify compliance with the safety requirements placed on electronic products.

Approval Reference Type: DFK

| Approval Logo | Certificates | Certification Body | Description |
|---------------|------------------------------|--------------------|-----------------|
| | UL Approvals | UL | UR File Number: |






Application standards

Application standards where the product can be used

| Organization | Design | Standard | Description |
|--------------|--------------------------------|----------------|---|
| | Suitable for applications acc. | IEC/UL 62368-1 | Audio/video, information and communication technology equipment - Part 1: Safety requirements |

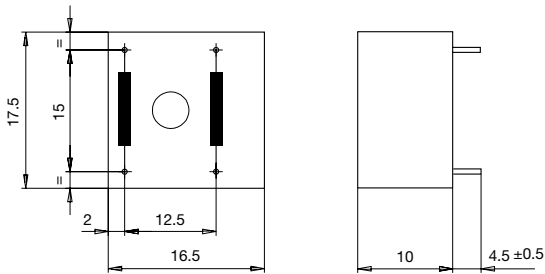
Compliances

The product complies with following Guide Lines

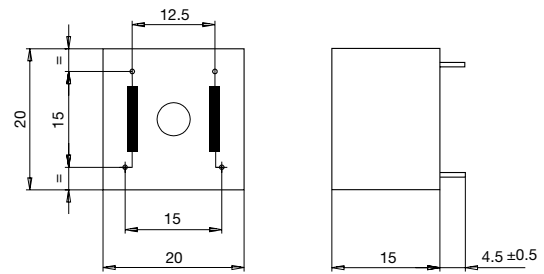
| Identification | Details | Initiator | Description |
|--|--|-------------|---|
|  | CE declaration of conformity | SCHURTER AG | The CE marking declares that the product complies with the applicable requirements laid down in the harmonisation of Community legislation on its affixing in accordance with EU Regulation 765/2008. |
|  | UKCA declaration of conformity | SCHURTER AG | The UKCA marking declares that the product complies with the applicable requirements laid down in the British Amendment of Regulation (EC) 765/2008. |
|  | RoHS | SCHURTER AG | Directive RoHS 2011/65/EU, Amendment (EU) 2015/863 |
|  | China RoHS | SCHURTER AG | The law SJ / T 11363-2006 (China RoHS) has been in force since 1 March 2007. It is similar to the EU directive RoHS. |
|  | REACH | SCHURTER AG | On 1 June 2007, Regulation (EC) No 1907/2006 on the Registration, Evaluation, Authorization and Restriction of Chemicals 1 (abbreviated as "REACH") entered into force. |

Dimension [mm]

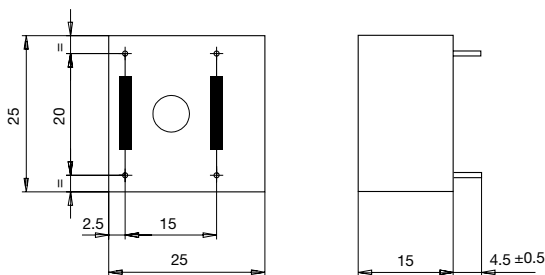
Case 03



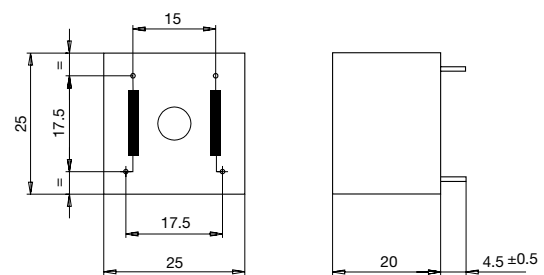
Case 07



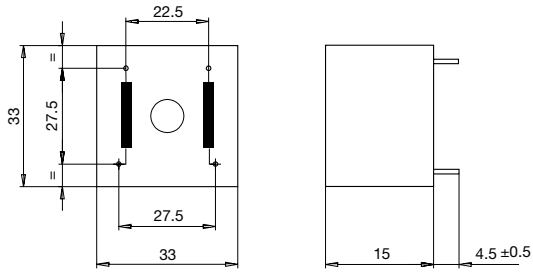
Case 11



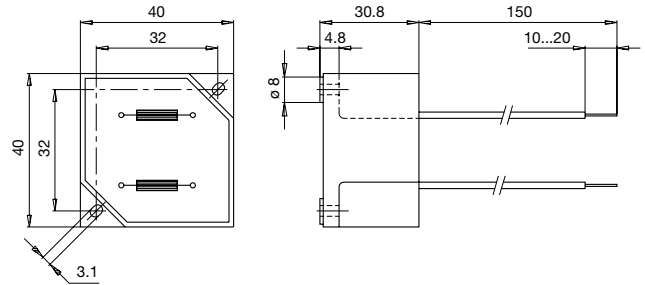
Case 12



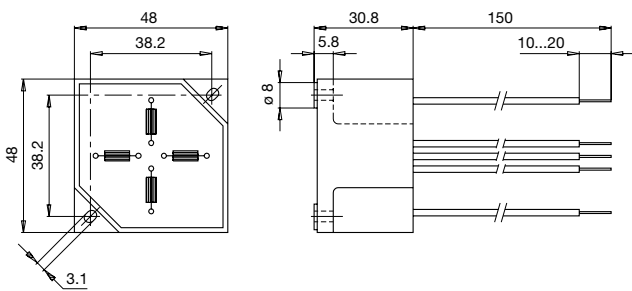
Case 20



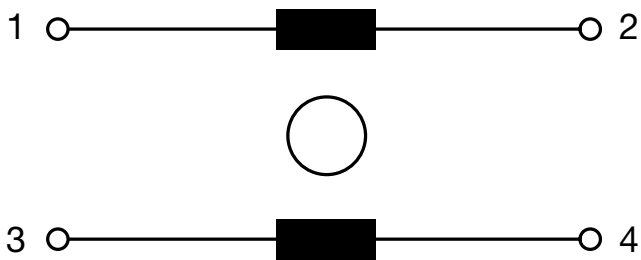
Case 25-2



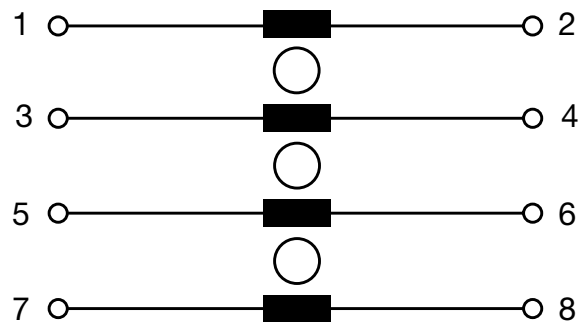
Case 29-4



Diagrams



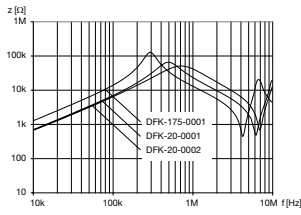
1 phase



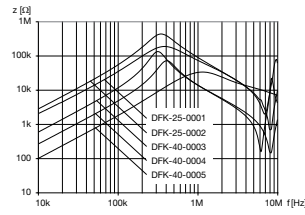
3 phases and neutral

Impedance curves

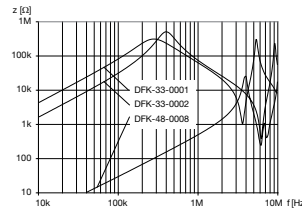
DFK-175-xxxx, DFK-20-xxxxx



DFK-25-xxxx, DFK-40-xxxxx



DFK-33-xxxx, DFK-48-xxxxx





All Variants

| I_n [A] | L_n [mH] | R_{Cu} [mΩ] | f_{RES} [MHz] | Copper ϕ [mm] | Weight [g] | Housing | Packing unit [pcs.] | Order Number |
|-----------|------------|---------------|-----------------|--------------------|------------|---------|---------------------|--------------|
| 0.5 | 10 | 900 | 0.5 | 0.5 | 6 g | 03 | 100 | DFK-175-0001 |
| 1 | 10 | 500 | 0.7 | 0.6 | 12 g | 07 | 150 | DFK-20-0001 |
| 1 | 20 | 500 | 0.5 | 0.6 | 12 g | 07 | 150 | DFK-20-0002 |
| 1 | 10 | 510 | 0.5 | 0.6 | 18 g | 11 | 50 | DFK-25-0001 |
| 2 | 10 | 250 | 0.5 | 0.6 | 18 g | 12 | 50 | DFK-25-0002 |
| 2 | 20 | 250 | 0.3 | 0.6 | 37 g | 20 | 45 | DFK-33-0001 |
| 3 | 10 | 150 | 0.38 | 0.6 | 37 g | 20 | 45 | DFK-33-0002 |
| 6 | 4 | 27 | 0.4 | - | 127 g | 25-2 | 10 | DFK-40-0003 |
| 10 | 2 | 9 | 1.45 | - | 127 g | 25-2 | 10 | DFK-40-0004 |
| 15 | 1 | 10 | 1.45 | 2.5 x 2.5 | 127 g | 25-2 | 10 | DFK-40-0005 |
| 6 | 4 x 1.5 | 20 | 0.2 | 1.5 x 1.5 | 163 g | 29-4 | 10 | DFK-48-0008 |

Availability for all products can be searched real-time: <https://www.schurter.com/en/info-center/support-tools/stock-check-distributors>

Looking for pricing, stock, or lifecycle information?

Click below to explore more details on WIN SOURCE:

-  [View DFK-33-0002 on WIN SOURCE](#)
-  [Schurter Inc. Information](#)

Optimize Your Supply Chain with WIN SOURCE Solutions

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-  Cost Control Management
-  Shortage Management
-  Alternative Solution
-  Excess Inventory Management