



Ferrites

Large Toroids with
Initial Permeability μ_i of 10 000

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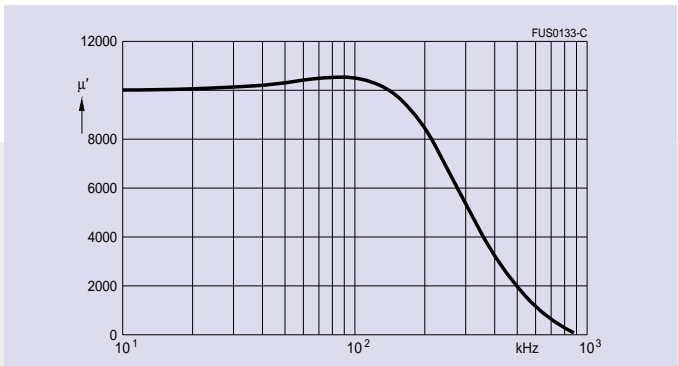
Large Toroids

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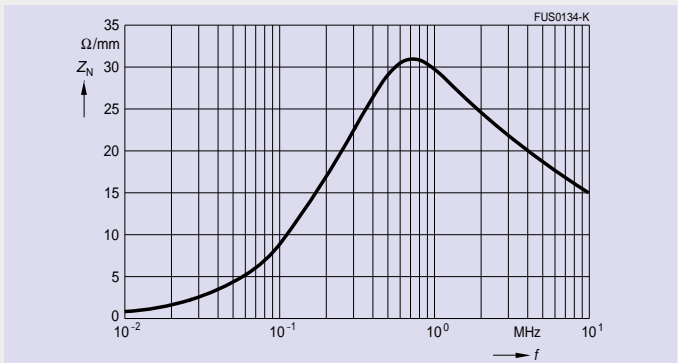
Due to improvements in the production process EPCOS was able to set new limits in the performance of T38 material for large toroids.

Features

- $\mu_i = 10\,000$ at 10 kHz up to R38.1
- Improved frequency characteristic
- Improved normalized impedance
- Curie temperature $T_c > 130\text{ }^\circ\text{C}$
- Suitable for the design of high-quality common-mode chokes



Permeability vs. frequency measured on R29, T38



Normalized impedance vs. frequency measured on R25 cores



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The inductance factor A_L needs to be increased to obtain the improved permeability. The table gives a survey of the new A_L values.

| Core type | Ordering code | A_L [nH] Tolerance $\pm 30\%$ |
|------------------|-----------------|------------------------------------|
| R17.0/10.7/6.8 | B64290L0652X038 | 6280 |
| R18.4/5.90/5.90 | B64290L0697X038 | 13.400 |
| R20.0/10.0/7.00 | B64290L0632X038 | 9740 |
| R22.1/13.7/6.35 | B64290L0638X038 | 6070 |
| R22.1/13.7/7.90 | B64290L0719X038 | 7570 |
| R22.1/13.7/12.5 | B64290L0651X038 | 12.000 |
| R22.6/14.7/9.20 | B64290L0626X038 | 7900 |
| R25.3/14.8/10.0 | B64290L0618X038 | 10.700 |
| R25.3/14.8/20.0 | B64290L0616X038 | 21.300 |
| R29.5/19.0/14.9 | B64290L0647X038 | 13.100 |
| R30.5/20.0/12.5 | B64290L0657X038 | 10.600 |
| R34.0/20.5/10.0 | B64290L0058X038 | 10.100 |
| R34.0/20.5/12.5 | B64290L0048X038 | 12.700 |
| R36.0/23.0/12.5 | B64290L0674X038 | 13.500 |
| R38.1/19.05/12.7 | B64290L0668X038 | 17.600 |

Contacts



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Literature

Short Form Catalog

- [Ferrites and Accessories](#)

(German/English, Ordering No. EPC:61001-7400)

Product Profile

- [Ferrite Toroids for LAN and EMI Applications](#)
(English, Ordering No. EPC:61004-7600)
- [Ferrites and Accessories for xDSL Applications](#)
(English, Ordering No. EPC:61007-7600)

CD-ROM

- [Data Book Library](#)

(English, Ordering No. EPC:65025-7400)

Data Book

- [Ferrites and Accessories](#)

(English, Ordering No. EPC:61002-7600)

EPCOS is the successor to Siemens Matsushita Components and manufactures some 40 000 electronic components, such as capacitors, ceramic components, surface acoustic wave (SAW) components and ferrites. The company serves the fastest growing and technologically most demanding markets: telecommunications, automotive, industrial and consumer electronics. EPCOS, with headquarters in Munich, Germany, is the market leader in Europe and no.2 worldwide and has R&D locations, production plants and sales centers in over 100 countries.

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