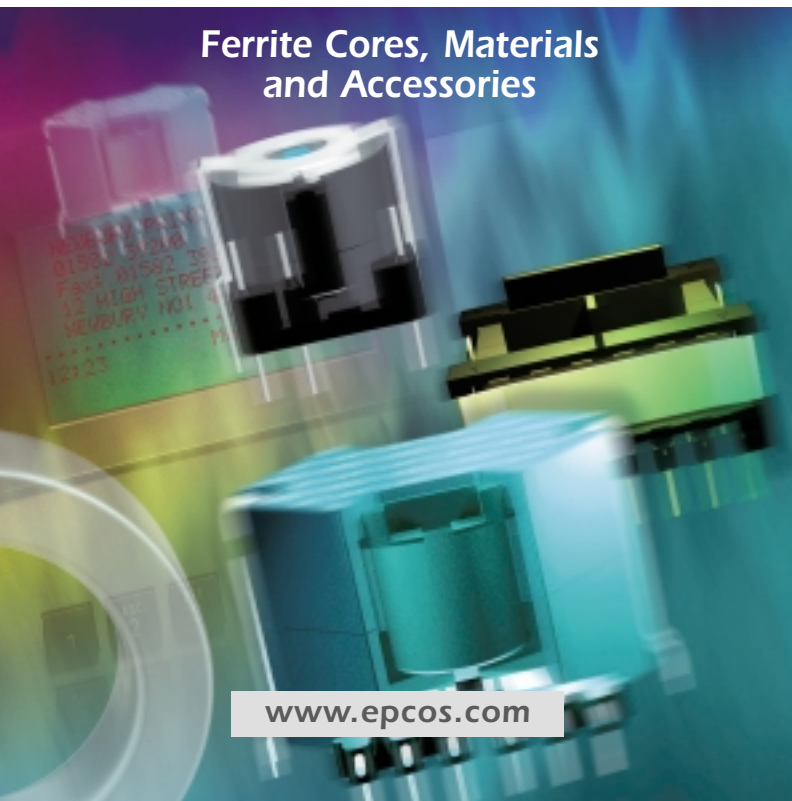




Ferrites

Ferrite Cores, Materials
and Accessories



www.epcos.com



Components

for Telecommunications and
Data Processing

Applications

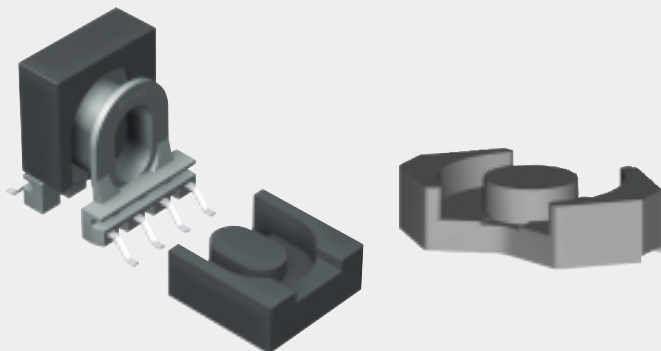
- Access products: ISDN, xDSL
- Line cards
- LANs
- SMD chokes

Features

- Low signal distortion (THD) and attenuation
- Wide operating temperature range:
–40°C up to +85°C
- New T66 material with low hysteresis loss coefficient
for longer reach or higher data rate
- Saturation flux density up to 550 mT for splitter (N45)
- Transformer miniaturization (footprint, height)
with EPX and EPO cores
- Magnetically shielded cores
- T57 material for LAN and SHDSL applications

Ferrite cores and materials

- RM, EP, EPX, EPO and toroids
- Materials: T66, T38, T57 and N45
- Wide range of accessories





Components

for Power Supplies and Lighting

Applications

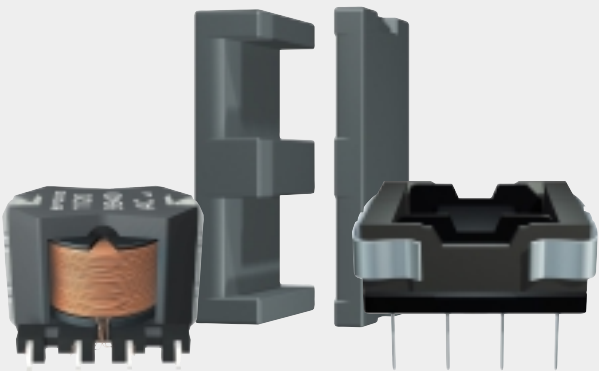
- Power transformers and chokes for SMPS
- DC/DC converters
- Chargers
- Electronic ballasts

Features

- Miniaturization
- Reduction of core losses
- High DC bias capability
- High saturation flux density
- Optimized cores for planar applications extended with new ER18/3/10, ER23/5/13 and ER25/4/15

Ferrite cores and materials

- E, ETD, ER, EFD, ELP and RM cores
- Materials: N49, N87, N92 and N97
- Wide range of accessories





Components

for EMI Suppression and RF Tuning

Applications

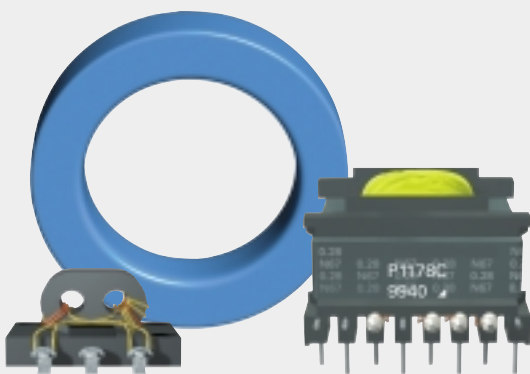
- Common mode chokes
- Filtering inductors (LAN, CAN bus, etc.)
- Filters for frequency converters

Features

- High permeability up to $\mu_i = 20\,000$
- High saturation flux density
- High T_c
- Toroids available in Parylene or epoxy coating
- N30 and T38 materials with improved RF characteristics
- T38 material: $\mu_i = 10\,000$ at 10 kHz up to R38.1

Ferrite cores and materials

- Toroids, DE, DU and E cores
- Double aperture cores
- Wide range of materials such as K1, K10, M13, N30, T46, T56, T65, T38, etc.





Accessories –

Solutions to Customers' Needs

Thermoplastic and thermosetting coil formers

- Wide range for both PTH and SMD applications
- Insert molding and post-inserted pinning
- Designed for simple and automatic winding
- Designed to meet required international safety standards
- Flame retardant
- Customized coil formers

Clamps and cap yokes

- Clamps for RM cores in bulk packages and on reels
- Clamps for E, ELP, ETD and EFD cores
- Cap yokes for EP cores

Insulating washers for RM and pot cores

- Between core and coil former
- For double-clad PCBs
- Made of polycarbonate
- Flame retardant

Adjusting screws

- Tube core with thread and core brake made of GFR polyterephthalate

Lead-free products

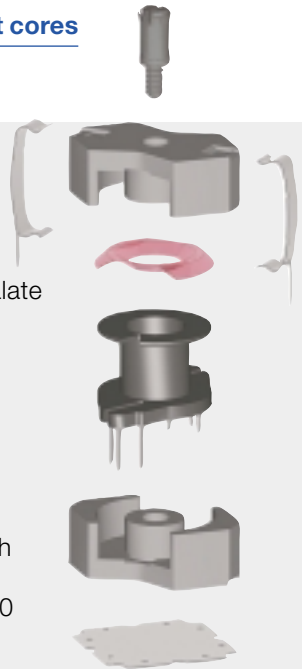
- Pure tin finishes for new designs and existing products

UL / Yellow Cards

- UL-approved molding materials
- EPCOS is an assigned molder with UL file no. E178263
- The assigned designation is A1770

Design and engineering

- 3D CAD design
- Stereolithographic (STL) rapid prototyping
- ISO 9001, ISO 14001 certified



Contacts



Your sales partners worldwide

Internet: www.epcos.com – See [Sales Offices & Distributors](#)

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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