



KEMET NEC TOKIN

Product Selection Guide

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Electronic Components
KEMET
CHARGED.®

The Specialist in Electronic Component Distribution

Flexible EMI Suppressor Sheet

A flexible, polymer sheet with micro-magnetic foils used to attenuate or suppress electromagnetic and radio frequency interferences (EMI/RFI) generated by electronic devices. It can also be used to improve signal transmissions and receptions.



Markets/Applications

Electronic equipment and components exposed to noise radiation such as:

- Industrial
- Medical
- Transportation
- Telecommunication
- Computer
- Consumer

Features and Benefits

- Halogen-free
- High magnetic permeability
- Improved relative permeability (μ')
- Low magnetic loss (μ'')
- Ultra-thin flexible sheet available on roll format
- Manufactured in a variety of shapes/sizes
- Can be used in portable equipment
- Resonance suppression controls the high frequency current and suppresses unwanted electromagnetic resonance by creating impedance
- Suppresses the electromagnetic wave intruding the sheet by the magnetic loss of its composition



EMI Cores for Cables

Suppress high frequency noise in electronic circuits.

Markets/Applications

- FM frequency in MHz range filtering with NiZn
- AM frequency in kHz range filtering with MnZn
- According EMI standards IEC, CISPR, ECE and regional FCC, EN, VCCI

Features and Benefits

- Flat, round and snail versions
- Split versions for post-production repair
- Broad range by simply adding turns



Metal Composite Inductors

NEC TOKIN is a leading supplier of metal composite inductors. NEC TOKIN manufactures a full range of metal composite inductors for high current and low DCR applications

Markets/Applications

- DC/DC Converters
- Graphics Chipset GPUs
- PC Memory Supplies
- Game Consoles
- Blu-ray Players
- HDTVs
- Servers

Features and Benefits

- Metal cores exhibit superior DC-superposed characteristics, allowing higher currents to flow
- Metal cores reduce core losses at light loads, improving power supply efficiency
- Used as part of a filter or for energy storage
- High permeability for higher inductance and lower DCR
- Low losses extend switching frequencies
- Molded metal structure reduces acoustic noise
- Higher current in smaller packages
- High power, high saturation



AC Line Filter Coils

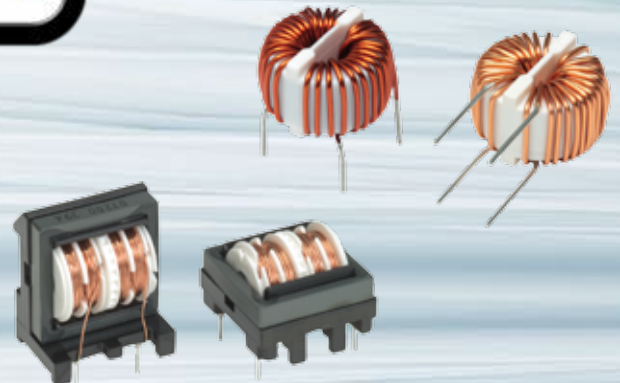
Common, Normal Mode and High Frequency Chokes

Markets/Applications

- Audio-visual Equipment
- Office Automation
- Digital Applications
- Power Supply Devices
- Power Conditioner
- HVAC

Features and Benefits

- High degree of characterization as a result of using the industry's highest standard, high permeability core
- Optimized design for compact size, low profile and light weight
- Split and non-split bobbin design for strong inductance/impedance/frequency characteristic
- Variety of form factors



Supercapacitors

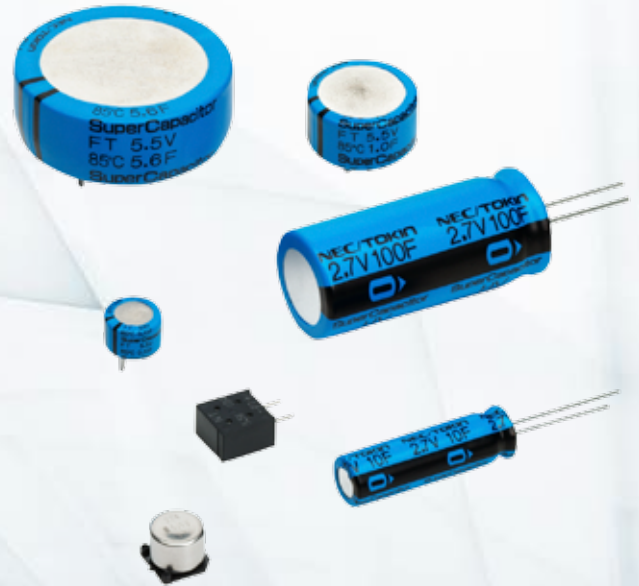
SMD radial supercapacitors designed for high energy storage applications

Markets/Applications

- Power electronics that require very short, high current
- Low Supply Current during longer periods
- Power Grid Applications

Features and Benefits

- Maximum operating temperature of 85°C
- Wide output current range (100uA to 5A)
- Wide ESR range
- Different form factors



Electromechanical Signal Relays

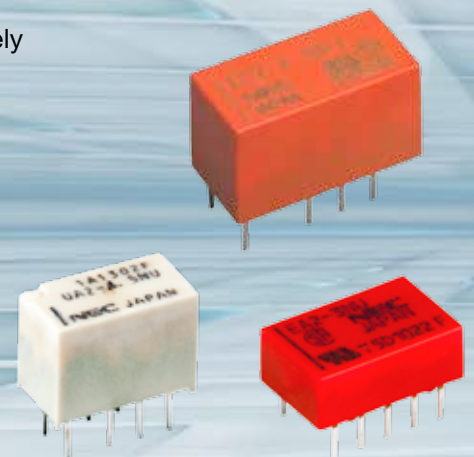
NEC TOKIN manufactures a wide range of low profile high density signal relays. These lightweight signal relays feature low power consumption benefits in extremely durable packaging.

Markets/Applications

- | | |
|--|-----------------------------|
| • Communications and Telecom Equipment | • Fire and Security Systems |
| • Test and Measurement Instruments | • Medical Equipment |
| • White Goods | • Lighting |

Features and Benefits

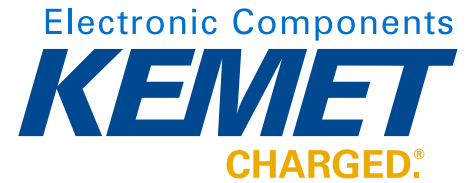
- Compact, lightweight, ultra-low profile with high density
- Low power consumption
- Extremely durable plastic sealing
- High withstand voltage
- Lineup of SMTs available





TTI NOW DISTRIBUTES THE KEMET NEC TOKIN PRODUCT PORTFOLIO

From this new agreement between KEMET and NEC TOKIN, TTI will be able to provide customers a broader set of next-generation products and solutions.



- Metal Composite Inductors
- Flexible EMI Suppressor Sheets
- EMI Cores for Cables
- Electromechanical Signal Relays
- Supercapacitors
- AC Line Filter Coils



This product has been made available through a private label agreement and a development and cross-licensing agreement between KEMET and NEC TOKIN to expand market and product offerings for both companies and their respective customers.



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Metal Composite Inductors



Series: MPC, MPC-G, MPC-H



Series: MPL, MPL-G, MPL-H

Flexible EMI Suppressor Sheets

Standard Specification

High Magnetic Permeability

Extra High Magnetic Permeability

Flame Retardant

High Frequency

For High Temp Reflow

Series: EFR

Series: EFX

Series: EFF

Series: EFA

Series: EFG

Series: EFH

EMI Cores for Cables



Series: ESD-R



Series: ESD-SR



Series: ESD-SR-H



Series: ESD-FPL,
ESD-FPD



Series: B-20-xx

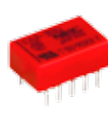
Electromechanical Signal Relays



Series: UA2, UB2



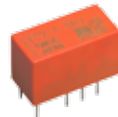
Series: UC2, UD2



Series: EA2



Series: EB2



Series: EC2



Series: EE2

Supercapacitors



Series: FM, FME, FML, FMR



Series: FC, FCS



Series: FT, FG, FGR, FS, FY,
FR, FE, FA



Series: HV

AC Line Filter Coils



Series: HHB



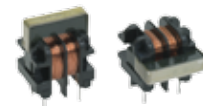
Series: SN



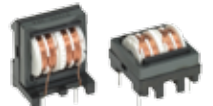
Series: SC



Series: SCR



Series: SU



Series: SS



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