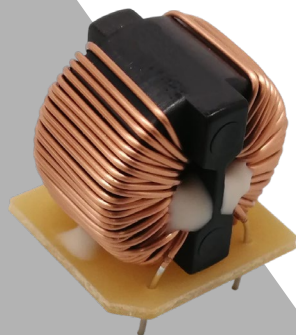


## PRODUCT OVERVIEW

YAGEO Group's SC-X coils are **high-performance single-phase common mode chokes** designed for conducted EMI suppression in industrial and power conversion applications.

SCF-X uses a **nanocrystalline core** for strong broadband EMI attenuation, while SCT-X uses **high-heat-resistant Mn-Zn ferrite (10HT)** to provide a **cost-effective alternative** with targeted noise suppression.



### Quick Facts

**Rated Voltage:** 500 VAC/VDC

**Rated Current Range:** 1 – 22 A

**Inductance Range:** 0.07 – 95.26 mH

**DCR:** 0.64 – 65.26 mΩ

**Operating Temperature Range:** -40°C – +130°C

### Contact & Information

For special requests, contact your local YAGEO Group sales representative.


**YAGEO** GROUP  
 KEMET


**Product Page**

## EMC

### Common Mode Chokes – Power

## Single-Phase SCF-X & SCT-X Series



### Key Selling Points

#### Features

- **Nanocrystalline core technology (SCF-X)**
- **Proprietary 10HT ferrite core material (SCT-X)**
- **Wide inductance and current coverage**
- **Wide operating temperature range**
- **Low DC resistance**
- **Certified material reliability**

#### Target Applications

- **Industrial equipment**
- **Industrial inverters**
- **Power supplies**
- **Power conditioners**
- **Power converters**
- **Air conditioning systems**
- **Robotics**

#### Customer Value

- Superior EMI suppression across a wide frequency range
- Cost-effective solution with high heat resistance and high Bs
- Enables precise EMI tuning with off-the-shelf availability
- Stable and reliable operation in harsh industrial environments
- Improved system efficiency with reduced heat generation
- UL 94 V-0 rated base and cap enhance fire safety

#### Market Advantages

- **Nanocrystalline and ferrite options within one product family.** Enables performance- or cost-driven selection without changing platform.
- **Very wide inductance range for single-phase chokes.** Supports EMI suppression from low to higher frequency ranges using a single series. Simplifies embedded EMI filter design and reduces development time.
- **Compact toroidal construction.** Optimized for PCB space and efficient integration in power systems.
- **Boost EMC performance without sacrificing safety.** With -40°C to +130°C operation, low DC resistance and UL 94 V-0 rated base and cap, SC-X is built for harsh, safety-critical designs.