

SCF-XV & SCR-XV & SCT-XV Line Filters

Overview

SCF-XV, **SCR-XV** & **SCT-XV** common mode chokes are ideal for EMC countermeasures in automotive applications. Its broad product portfolio allows for selection of the most suitable specification for each application within the standard offering. It also has a withstand voltage of 1,000 V AC/DC to meet the higher voltage requirements of automotive batteries.

Benefits

- Proprietary **S15H** or **7HT** ferrite material or high permeability **nanocrystal** material
- Rated voltage up to 1,000 V AC/DC
- High impedance
- High inductance
- UL 94 V-0 flame retardant rated base and cap
- AEC-Q200 qualified
- IATF 16949 managed
- Customized standard parts

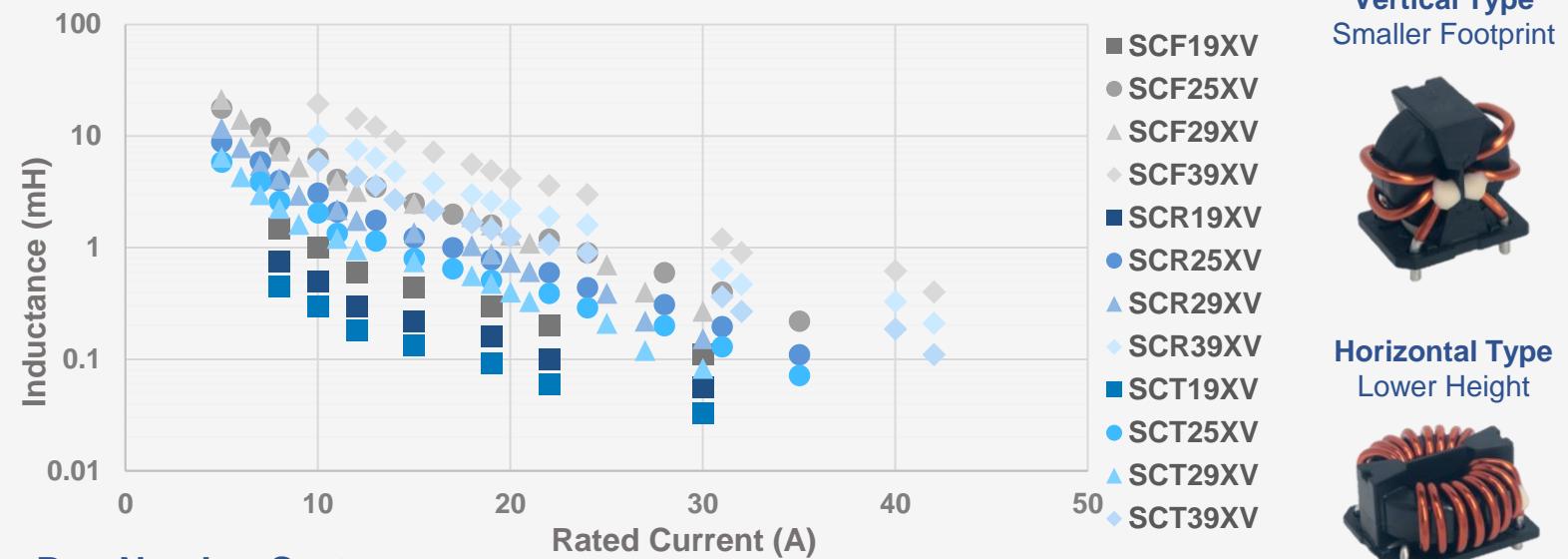
Applications

• On board charger	• DC / DC converter
• Electric compressor	• Electric oil pumps
• Electric heater	• Electric power steering
• Starter booster	• WPT systems

Electrical Characteristics

- Two different layouts (vertical / horizontal) and three different core dimensions (19/25/29/39 mm)
- Rated current range: 5 A to 50 A
- Inductance range: **SCF-XV** 0.110 to 21.2 mH | **SCR-XV** 0.056 to 11.8 mH | **SCT-XV** 0.033 to 6.47 mH
- DCR: 0.65 to 40.3 mΩ
- Operating temperature: **SCR-XV** -40°C to +120°C | **SCF-XV** & **SCT-XV** -40°C to +150°C

Selection Guide



Part Number System

SCR	29	XV-	300-	2R4	A	005	JV
Series	Outer Core Diameter	Approval	Rated Current	Wire Diameter	Windings	Number of Turns	Terminal Base Type
SCF = Nanocrystal core SCR = S15H ferrite core SCT = 7HT ferrite core	19 = 19 mm ø 25 = 25 mm ø 29 = 29 mm ø 39 = 39 mm ø	XV = AEC-Q200	300 = 30 A	2R4 = 2.4mm ø	A = Single wire	005 = 5 turns	JV = Vertical type JH = Horizontal type