

EMC Components

SF Series

Differential Mode Choke Coils for Signal Line and DC Power Line Axial

VARNISHED AND TAPED TYPE FOR LARGE CURRENT

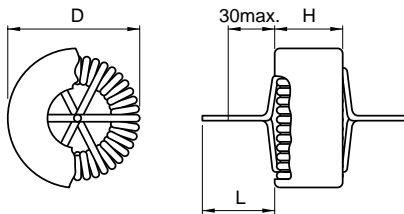
FEATURES

- The SF series chokes feature cores with high saturation magnetic flux density. They thereby provide an effective means of combating pluse EMC.
- By using an advanced amorphous metal alloy core, the SF series are able to provide line noise attenuation performance equivalent to conventional ferrite-based chokes but with far more compact dimensions and fewer coil turns. They can thus be implemented in high-density circuit configurations to comply with various EMC-related regulations.

TYPICAL CHARACTERISTICS OF SF CORE

μ [300kHz]	75
$\tan\delta$ [\mathring{u}[300kHz]	3×10^{-3}
Applicable frequency	10MHz max.
Temperature stability[-20 to +60°C]	5.2%
Bs[24kA/m]	1400mT

SHAPES AND DIMENSIONS/ELECTRICAL CHARACTERISTICS



Part No.	Rated current (A)max.	Inductance*1 (μ H)min.	DC resistance (m Ω)max.	Shape	Diameter of winding wire*2 ϕ (mm)	Dimensions(mm)			Weight (g)
						D max.	H max.	L	
SF-HP-20A-01	20	60	15	SF-T36(1piece)	1.8 \times 2	70	28	50 \pm 5	230
SF-HP-30A-01	30	60	10	SF-T36(2piece)	1.8 \times 3	72	43	50 \pm 5	420
SF-HP-40A-01	40	60	10	SF-T36(3piece)	1.8 \times 3	72	60	50 \pm 5	670
SF-HP-60A-01	60	60	10	SF-T36(3piece)	2 \times 3	72	60	50 \pm 5	760

*1 LCR METER: YHP4261A, 1kHz(L \leq 190 μ H:70mA, L > 190 μ H:10mA)

*2 PEW (Grade 1)

- Please contact us, when specifying dimensions of the center hole for the coil.
- When coil temperature exceeds 100°C, please use forced cooling as well (SF-HP-20A-01, SF-HP-30A-01, SF-HP-40A-01, SF-HP-60A-01).