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(1/2)

Conformity to RoHS Directive

Differential Mode Choke Coils(Pin Terminal) For Signal Line and Power Line, With Substrate

SF1-T Series

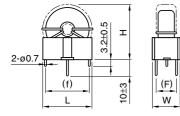
FEATURES

- · 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.
- · The products contain no lead and also support lead-free soldering.

TYPICAL CHARACTERISTICS OF SF CORE

µi[300kHz]	75
tanδ/µi[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 SF1-T SERIES, ON BOARD TYPE WITH BASE (WITH SUPPORT PIN TERMINAL)







Part No.	Rated current (A)max.	Inductance ^{*1} (µH)min.	DC resistance	· · · · · · · · · · · · · · · · · · ·	Dimensions(mm)					Weight
			(mΩ)max.		L max.	W max.	H max.	(F)*3	(f)*3	(g)
SF1-T5-30-01-PF	1	30	80	0.4	13.5	9	14	(7.5)	(10)	2.9
SF1-T5-40-01-PF	1	80	110	0.4	13.5	9	14.5	(7.5)	(10)	2.7
SF1-T8-30S-01-PF	2	26	55	0.6	18	12.5	18	(9.9)	(14)	5.5
SF1-T8-40S-01-PF	2	46	70	0.6	18	12.5	18	(9.9)	(14)	6
SF1-T8-50S-01-PF	2	72	85	0.6	18	12.5	18	(9.9)	(14)	6.5
SF1-T8-50D-01-PF	2	125	100	0.6	18.5	15.5	18	(13)	(14)	9

*1 LCR METER: YHP4261A, 1kHz(L ≤ 190µH:70mA, L>190µH:10mA)

*2 UEW (Grade 1) *3 Reference value

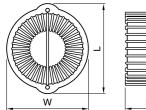
• Conformity to RoHS Directive: This means that, in conformity with EU Directive 2002/95/EC, lead, cadmium, mercury, hexavalent chromium, and specific bromine-based flame retardants, PBB and PBDE, have not been used, except for exempted applications.

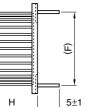
· All specifications are subject to change without notice.

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SF1-T SERIES, HORIZONTAL ON BOARD TYPE WITH BASE (WITHOUT SUPPORT PIN TERMINAL)

Dimensions in mm









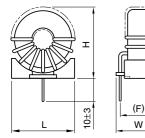
Rated current	Inductance*1 (µH)min.	DC resistance (mΩ)max.	Diameter of winding wire*2 ø(mm)	Dimens	Weight			
(A)max.				L max.	W max.	H max.	(F)* ³	(g)
1	80	110	0.4	16.5	14	8.9	(12.7)	3.5
2	63	75	0.5	16.5	14	8.9	(12.7)	3
2	72	85	0.6	19	17	10.5	(15.2)	6
3	40	40	0.8	26.5	22	15	(20)	13
3	72	50	0.8	26.5	22	15	(20)	14
3	110	70	0.8	26.5	22	15	(20)	16
5	35	30	1	30.5	26	16.5	(25)	18.5
5	64	40	1	30.5	26	16.5	(25)	20
5	100	50	1	30.5	26	16.5	(25)	22.5
	(A)max. 1 2 2 3 3 3 5 5 5	(A)max. (μH)min. 1 80 2 63 2 72 3 40 3 72 3 110 5 35 5 64	(A)max. (μH)min. (mΩ)max. 1 80 110 2 63 75 2 72 85 3 40 40 3 72 50 3 110 70 5 35 30 5 64 40	(A)max.(μ H)min.($m\Omega$)max.		$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	$ \begin{array}{c c c c c c c c c c c c c c c c c c c $	$ \begin{array}{c c c c c c c c c c c c c c c c c c c $

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

*2 UEW (Grade 1)

*3 Reference value

SHAPES AND DIMENSIONS/ELECTRICAL CHARACTERISTICS SF1-T SERIES, ON BOARD TYPE WITH BASE (WITHOUT SUPPORT PIN TERMINAL)







Part No.	Rated current	Inductance*1	DC resistance	Diameter of winding wire*2	Dimensi	Weight			
	(A)max.	(µH)min.	(mΩ)max.	ø(mm)	L max.	W max.	H max.	(F)* ³	(g)
SF1-T10-30-01-PF	3	40	40	0.8	24	18	25	12.5	13.5
SF1-T10-40-01-PF	3	72	50	0.8	24	18	25	12.5	14.5
SF1-T10-50-01-PF	3	110	70	0.8	24	18	25	12.5	16
SF1-T12-30-01-PF	5	35	30	1	26	18	29	12.5	18
SF1-T12-40-01-PF	5	64	40	1	26	18	29	12.5	20
SF1-T12-50-01-PF	5	100	50	1	26	18	29	12.5	23
SF1-300Y10A-01-PF	10	30	10	1.6	33	18	37	12.5	47.5
SF1-800Y10A-01-PF	10	80	16	1.5	33	18	37	12.5	53

^{∗1} LCR METER: YHP4261A, 1kHz(L≦190µH:70mA, L>190µH:10mA)

*2 UEW (Grade 1)

*3 Reference value