TDK

Differential Mode Choke Coils(RADIAL)
For Signal Line and Power Line, Standard Type Non-molded

Conformity to RoHS Directive

SF-T Series

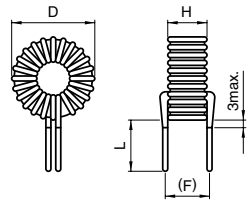
FEATURES

- 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.

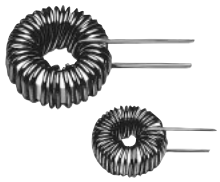
TYPICAL CHARACTERISTICS OF SF CORE

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



Dimensions in mm



Part No.	Rated current (A)max.	Inductance*1 (μH)min.	DC resistance (mΩ)max.	Shape	Diameter of winding wire*2 ø(mm)	Dimensions(mm) D max.	H max.	L	(F)*3	Weight (g)
SF-T3-20-01-PF	1	10	40	SF-T3	0.4	8.5	6	20±3	(5.5)	1
SF-T5-30-03-PF	1	30	80	SF-T5	0.4	12.5	6	25±3	(6)	3
SF-T5-40-01-PF	1	110	125	SF-T5	0.4	12.5	6.5	25±3	(6)	3
SF-T5-60-PF	1	150	280	SF-T5	0.4	14	9	25±3	(6)	3
SF-T8-90S-01-PF	1	200	150	SF-T8S	0.6	17.5	10.5	25±3	(8)	6.5
SF-T8-70D-02-PF	1	300	150	SF-T8D	0.6	18	13	25±3	(11)	8.5
SF-T5-17-02-PF	2	10	30	SF-T5	0.55	13.5	8	25±3	(6)	3
SF-T5-25-01-PF	2	32	42	SF-T5	0.55	13	7	25±3	(6)	3
SF-T8-40S-PF	2	46	70	SF-T8S	0.6	17	9.5	25±3	(8)	5.5
SF-T8-50S-PF	2	72	85	SF-T8S	0.6	17	9.5	25±3	(8)	6
SF-T8-50D-PF	2	125	100	SF-T8D	0.6	17	12.5	25±3	(10)	8
SF-T8-60L-02-PF	2	200	115	SF-T8L	0.6	19	11	25±3	(8)	9.5
SF-T8-70L-02-PF	2	260	160	SF-T8L	0.55	18.5	11	25±3	(8)	9.5
SF-T10-80-01-PF	2	300	160	SF-T10	0.6	22	12	25±3	(10)	12
SF-T10-30-PF	3	40	40	SF-T10	0.8	22	12.5	25±3	(10)	12.5
SF-T10-40-PF	3	72	50	SF-T10	0.8	23	12.5	25±3	(10)	13
SF-T10-50-PF	3	110	70	SF-T10	0.8	23	12.5	25±3	(10)	14
SF-T10-60-01-PF	3	160	80	SF-T10	0.8	24	13	25±3	(10)	14
SF-T12-95-01-PF	3	400	110	SF-T12	0.8	26.5	13.5	25±3	(10)	20
SF-T12-30-PF	5	35	30	SF-T12	1	26	12	25±3	(10)	17
SF-T12-40-PF	5	64	40	SF-T12	1	26	12.5	25±3	(10)	17.5
SF-T12-50-PF	5	100	50	SF-T12	1	26	13	25±3	(10)	20
SF-T12-60-05-PF	5	140	50	SF-T12	1	27	14	25±3	(10)	21
SF-T12-75-02-PF	5	200	60	SF-T12	1	27	14	25±3	(10)	23
SF-T15-40L-01-PF	8	100	20	SF-T15L	1.5	33.5	18	20±3	(17)	55
SF-T13-35-01-PF	10	65	30	SF-T13	1.6	31	18.5	25±3	(16)	40
SF-T15-20L-01-PF	15	30	7	SF-T15L	1.8	35	18.5	20±3	(15)	50

*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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