POWER | PROTECT | CONNECT

SERIES: SPFCT | DESCRIPTION: POWER FACTOR CORRECTION TOROIDAL INDUCTORS

FEATURES

- Power Factor Correction (PFC) design
- High flux density material used
- Smaller than traditional designs
- Switching frequency min. 32 kHz
- AC Line Voltage max. 265 VAC
- Operating temperature -40°C to +130°C
- Vertical and horizontal PCB mount options

RoHS | REACH COMPLIANCE

signal TRANSFORMER a bel group

MODEL [3]	Inductance [1]	R_{DC}	I_{DC} [2]	Dimensions				
				A	B	C	D	E
	±15% [µH]	max [Ω]	[A]	max [mm]	max [mm]	nom [mm]	nom [mm]	nom [mm]
SPFCT-301-1	300	0.50	1.0	21.0	11.0	9.0	18.0	0.40
SPFCT-501-1	500	0.65	1.0	21.0	11.0	9.0	18.0	0.40
SPFCT-751-1	750	0.90	1.0	23.0	12.5	10.0	20.0	0.40
SPFCT-102-1	1000	1.20	1.0	25.0	11.0	9.0	22.5	0.40
SPFCT-152-1	1500	1.20	1.0	27.5	12.5	10.5	25.0	0.40
SPFCT-202-1	2000	2.00	1.0	29.0	13.5	11.0	26.0	0.40
SPFCT-301-2	300	0.32	2.0	26.0	12.0	10.0	23.0	0.60
SPFCT-501-2	500	0.40	2.0	29.0	14.0	11.0	26.0	0.60
SPFCT-751-2	750	0.60	2.0	31.0	17.0	13.0	28.0	0.60
SPFCT-102-2	1000	0.80	2.0	32.0	18.0	14.0	29.0	0.60
SPFCT-152-2	1500	0.85	2.0	34.0	19.0	15.5	30.0	0.60
SPFCT-202-2	2000	0.95	2.0	34.0	19.0	15.5	30.0	0.60
SPFCT-301-3	300	0.20	3.0	30.0	15.0	11.5	26.5	0.80
SPFCT-501-3	500	0.30	3.0	31.0	16.5	12.5	27.5	0.80
SPFCT-751-3	750	0.32	3.0	34.0	18.0	15.5	31.0	0.80
SPFCT-102-3	1000	0.40	3.0	36.0	20.0	16.0	32.0	0.80
SPFCT-152-3	1500	0.43	3.0	43.0	21.0	16.0	39.0	0.80
SPFCT-301-5	300	0.10	5.0	35.0	20.0	16.0	31.5	1.00
SPFCT-501-5	500	0.15	5.0	42.0	17.0	15.0	37.5	1.00
SPFCT-751-5	750	0.18	5.0	47.0	21.0	18.0	43.5	1.00
SPFCT-102-5	1000	0.20	5.0	49.0	23.0	19.0	45.0	1.00
SPFCT-152-5	1500	0.26	5.0	55.0	25.0	20.0	51.5	1.00
SPFCT-301-7	300	0.06	7.0	45.0	23.0	18.0	39.0	1.30
SPFCT-501-7	500	0.10	7.0	51.0	26.0	20.0	46.0	1.30
SPFCT-751-7	750	0.13	7.0	57.0	27.0	21.0	52.5	1.30
SPFCT-102-7	1000	0.18	7.0	57.0	27.0	21.0	52.5	1.30

SPFCT-301-10	300	0.05	10.0	53.0	27.0	21.0	47.0	1.73
SPFCT-501-10	500	0.06	10.0	63.0	31.0	24.0	55.0	1.73
SPFCT-751-10	750	0.08	10.0	73.0	32.0	26.0	68.0	1.73
SPFCT-102-10	1000	0.09	10.0	77.0	36.0	28.0	70.0	1.73

Notes:
Electrical parameters measured at ambient temperature 25ºC.
[1] Inductance test @ 10 kHz, 0.1 V_{RMS}
[2] I_{DC}: 10% roll off typ. (20% max.) from initial inductance value
[3] Add suffix to part number: -H for horizontal, or -V for vertical mount.

PART NUMBER KEY

SPFCT - XXX - XX - X

Type / Product Series
SPFCT = Signal Power Factor Corrected Toroidal Inductor

Inductance *
301 = 300 µH
152 = 1500 µH

Mounting
V = vertical
H = horizontal

Rated Current (I_{DC})
2 = 2 A
10 = 10 A

** Note: Inductance expressed by three figures. The unit is micro henry (µH). The first and second figures are significant digits, the third figure expresses the number of zeros which follow the two figures. If there is a decimal point, it is expressed by the capital letter "R" (3R8 = 3.8 µH). In that case, all figures are significant digits.*

SAFETY AND COMPLIANCE

Parameter	Compliant
Safety approvals	
RoHS	Compliance with RoHS, REACH and Halogen Free

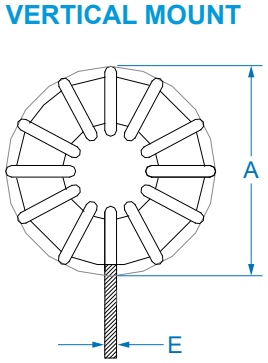
ENVIRONMENTAL

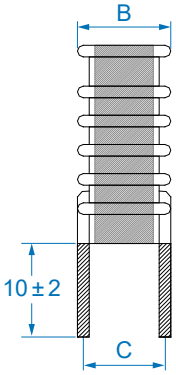
Parameter	Conditions	Min	Typ	Max	Units
Operating temperature		-40		+130	°C

MECHANICAL DRAWING & DIMENSIONS

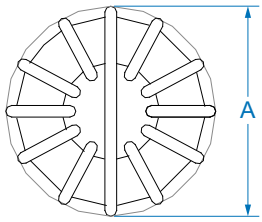
Units: mm

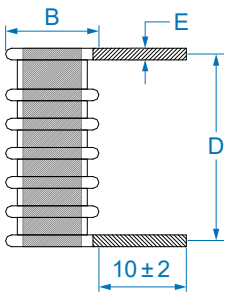
VERTICAL MOUNT





HORIZONTAL MOUNT





Note: Unless otherwise specified, all tolerances are: mm: X.X : ±0.38 X.XX : ±0.10

REVISION HISTORY

Rev.	Description	Date
1	Initial release	03/02/2026
A		

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