



Coilmaster Electronics Co., Ltd.

3F No.211, Huan Bei Rd. Chung Li District, Taoyuan City, Taiwan

Tel : +886-3-422-8279

Fax : +886-3-452-5688

E-mail : info@coilmaster.com.tw

Web Site : www.coilmaster.com.tw

Coupled Power Inductors ~ SDS6035BQXF SERIES

PART NUMBERING SYSTEM

SDS	6035BQXF	—	250M	—	LF
TYPE	DIMENSIONS		INDUCTANCE		LEAD FREE

Product features

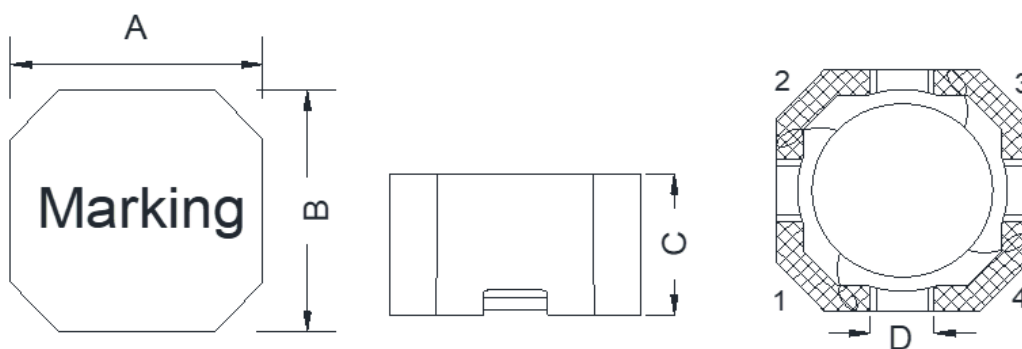
- Dual-Winding Magnetic Design for High Efficiency
- Compact Footprint with High Current Handling
- Low Core Loss at High Switching Frequencies
- Excellent Isolation Between Windings
- Customizable Turns Ratio and Inductance Values

Applications

- Compact Flyback and Forward Converters
- PoE (Power over Ethernet) and Telecom Modules
- Sensor and IoT Energy Conversion
- Gate Drive Transformers for Power Semiconductors
- Battery Management Systems (BMS)



SHAPES AND DIMENSIONS



A= 6.0±0.3

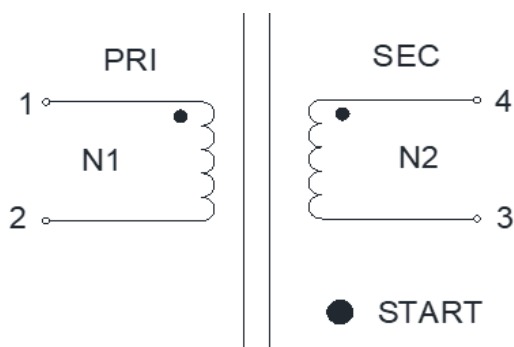
B= 6.0±0.3

C=3.5 Max

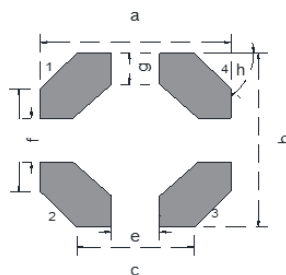
D= 1.52

UNIT : mm

SCHEMATIC DRAWING



PCB Pattern



a	: 6.6 Ref.	m/m
b	: 6.6 Ref.	m/m
c	: 4.25 Ref.	m/m
d	: 4.25 Ref.	m/m
e	: 2.0 Ref.	m/m
f	: 2.0 Ref.	m/m
g	: 1.2 Ref.	m/m

Our specification limit the quality of the component to a single unit.

Please ensure the component is thoroughly evaluated in your application circuit

Revised December 2024 (C48)



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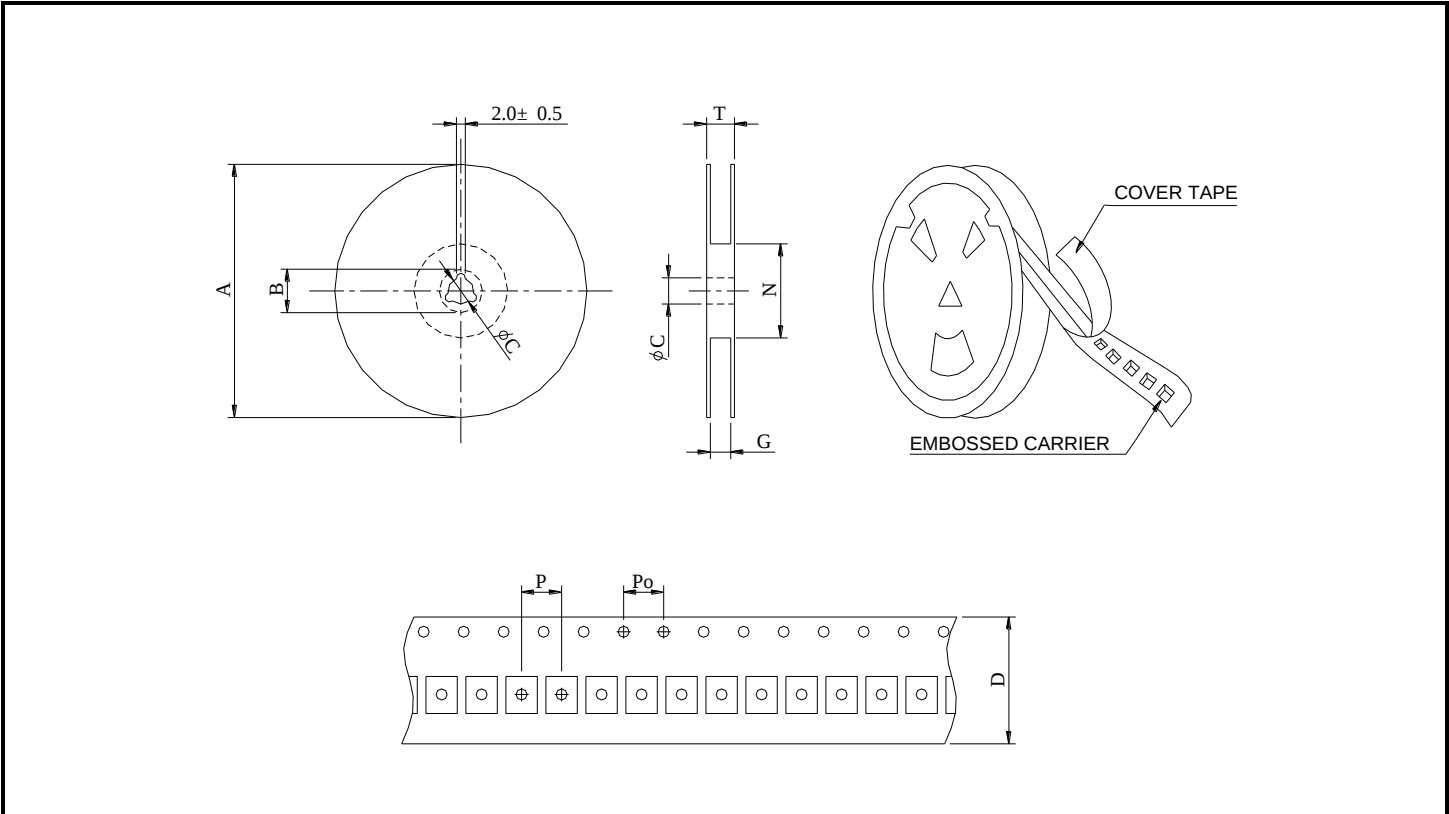
SPECIFICATION TABLE

PART NUMBER	INDUCTANCE (μ H)(1-2)	DCR (Ω) (Max.)(1-2)	DCR (Ω) (Max.)(3-4)	Turn Ratio (Pri:Sec)	Isat (A) (Typ.)(1-2)
SDS6035BQXF-250ML-LF	25.0 $\pm$ 20%	0.74	13.7	1 : 10	1.3
SDS6035BQXF-250M-LF	25.0 $\pm$ 20%	0.20	72.0	1 : 20	0.7
SDS6035BQXF-120M-LF	12.5 $\pm$ 20%	0.085	200.0	1 : 50	0.9
SDS6035BQXF-7R5MR-LF	7.5 $\pm$ 20%	0.085	285.0	1 : 90	1.6
SDS6035BQXF-7R5M-LF	7.5 $\pm$ 20%	0.085	340.0	1 : 100	1.6

- Isat current at which the inductance drops 10% (typ.) from its value without current.
- Operating temperature range -40℃ to +125℃.
- Electrical specifications at 25℃ .

Circuit design, component placement, PWB trace size and thickness, airflow and other cooling provision all affect the part temperature.
Part temperature should be verified in the end application.

PACKAGING SPECIFICATION



SERIES	STAYLE	Q'TY (PCS)	DIMENSIONS (m/m)								
			A	B±0.8	C±0.5	D	G ⁺ 0	N ⁻ 0	P	Po	T
SDS6035BQXF	13-24	1500	330	21	13	16	16.5	50	12.0	4	-