

SMD High Current Flat wire power Inductor

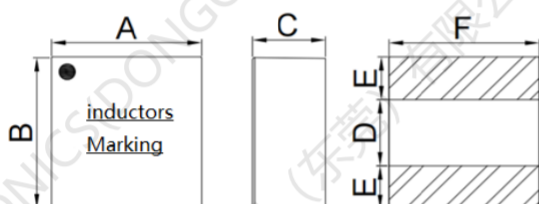
FC-ALX4030D- Series

Features:

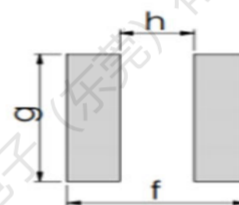
1. Low acoustic noise and low leakage
2. flux noise by shielded construction
3. High saturation current
4. Extremely low DCR
5. Magnetically shielded
6. Operating temperature: -40 °C to +125 °C



1. Dimensions:mm



2. Recommended Land Pattern: mm



3. Schematic:



4. Dimensions

Series	A	B	C	D	E	F	f	g	h
FC-ALX4030D	4.2±0.2	4.2±0.2	3.10 Max.	1.4±0.2	1.2±0.2	4.2 Typ	4.30 Typ.	4.4 Typ.	1.2 Typ.

5. Electrical Properties:

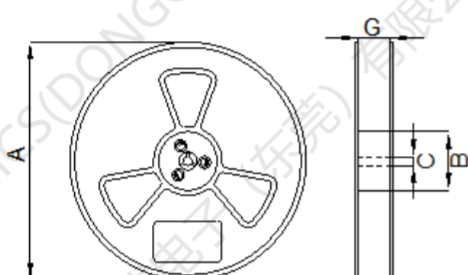
Part Number	Inductance/μH	DC R mΩ		Saturation Current A		Heat Rating Current	Marking
	1MHz/0.1V	Typ.	Max.	Typ.	Max.	40°C rise	
Symbol	L	DCR		Isat	Isat	Irms	-
FC-ALX4030D-R10MT	0.1±30%	1.45	1.65	35.0	30.0	25.8	R10
FC-ALX4030D-R33MT	0.33±20%	2.55	3.00	16.5	15.0	16.5	R33
FC-ALX4030D-R47MT	0.47±20%	3.15	3.50	14.5	13.0	16.2	R47
FC-ALX4030D-R56MT	0.56±20%	3.51	3.90	14.0	12.3	14.0	R56
FC-ALX4030D-R68MT	0.68±20%	3.78	4.30	12.5	11.5	12.5	R68
FC-ALX4030D-1R0MT	1.00±20%	5.50	6.20	11.8	10.5	11.8	1R0
FC-ALX4030D-1R2MT	1.20±20%	6.80	7.50	10.5	9.80	10.5	1R2
FC-ALX4030D-1R5MT	1.50±20%	7.80	8.60	9.60	8.90	9.60	1R5
FC-ALX4030D-2R2MT	2.20±20%	10.7	11.8	8.10	7.30	8.10	2R2
FC-ALX4030D-3R3MT	3.30±20%	15.9	17.7	6.50	5.80	5.80	3R3
FC-ALX4030D-4R7MT	4.70±20%	21.5	23.4	5.50	5.00	5.50	4R7

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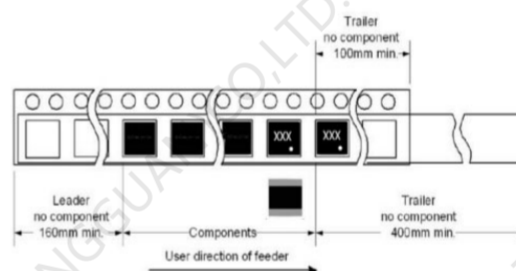
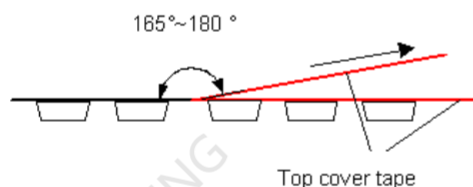
Note:

- 1: DCR test data is referenced to 20°C ambient;
- 2: Isat: Peak current for approximately 30% rolloff at +20 °C;
- 3: Irms: DC current for an approximate temperature rise of 40 °C without core loss. Derating is necessary for AC currents. PCB layout, trace thickness and width, air-flow, and proximity of other heat generating components will affect the temperature rise. It is recommended that the temperature of the part not exceed 125 °C under worst case operating conditions verified in the end application. Max. Value, $\Delta T < 40^{\circ}\text{C}$; for Typ. Value, ΔT is approximate 40°C

7.1 PACKAGE:



Symbol	Dimension
A	330±2
B	100±2
C	13.5±0.2
G	14.3±0.5



7.2 Carton ndimensions and packing quantity

Product Series	Quantity/Reel	Inner Carton Quantity	Out Carton Quantity
FC-ALX4030D	2000 pcs	(2000*4)=8000 pcs	(8000*3)=24000pcs