

SMD High Current Flat wire power Inductor

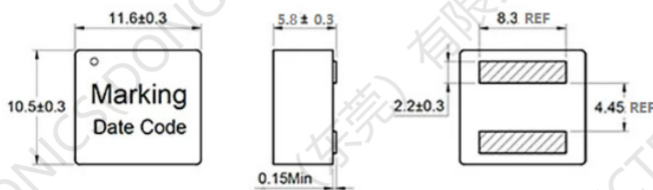
FC-ALX1060D--R68MT

Features:

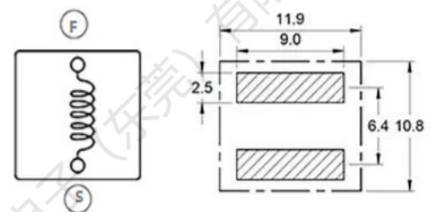
1. Low acoustic noise and low leakage
2. flux noise by shielded construction
3. High saturation current
4. Extremely low DCR
5. Magnetically shielded
6. Operating temperature: -40°C to $+125^{\circ}\text{C}$



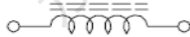
1. Dimensions:mm



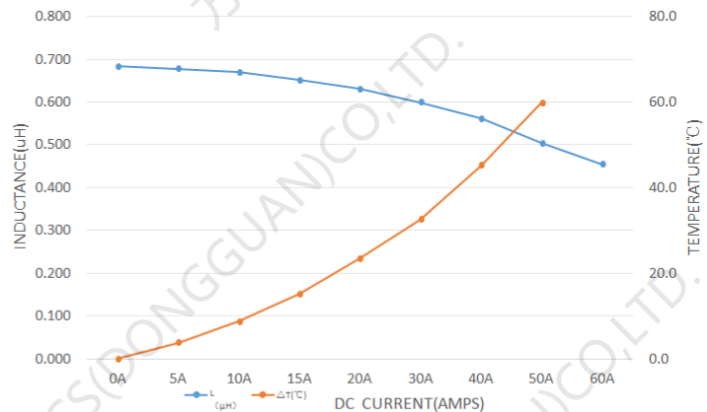
2. Recommended Land Pattern: mm



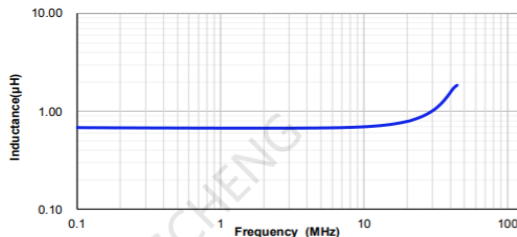
3. Schematic:



4. INDUCTANCE VS CURRENT



5. L vs Frequency



6. Electrical Properties:

Part Number	Inductance/ μH	DC R m Ω		Isat Current A		Heat Rating Current	Marking
	100kHz/0.25V	Typ.	Max.	Typ.	Max.	40°C rise	
Symbol	L	DCR		Isat	Isat	Irms	-
FC-ALX1060D--R68MT	0.68±20%	1.35	1.55	50.0	52.0	30.0typ/33.9max	R68

Notes

1. All data is tested based on 25°C ambient temperature; 2. Inductance measure condition at 100kHz, 0.25V.
3. Saturation current: the actual value of DC current when the inductance decrease 30% of its initial value.
4. Temperature rise current: the actual value of DC current when the temperature rise is $\Delta T 50^{\circ}\text{C}$ ($T_a = 25^{\circ}\text{C}$)
5. Special remind: Circuit design, component placement, PCB size and thickness, cooling system and etc.
6. All will affect the product temperature. Please verify the product temperature in the final application.