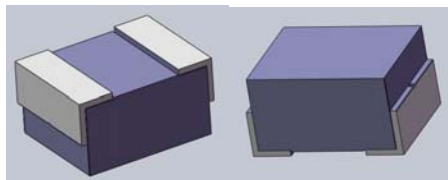


High Current, Power Inductors

FXL252012 Series



Description

- Halogen Free
- 125°C maximum total temperature operation
- 2.7 x 2.2 x 1.2mm maximum surface mount package
- Powder iron core material
- Magnetically shielded, low EMI
- High current carrying capacity, Low core losses
- Inductance range from 0.33 μ H to 2.2 μ H
- Current range from 1.8 to 7.2 Amps
- Frequency range up to 5MHz
- RoHS compliant

Applications

- Voltage Regulator Module (VRM)
- Multi-phase regulators
- Point-of-load modules
- Smart phone POL modules
- SSD modules
- Notebook regulators
- Battery power systems
- Graphics cards
- Data networking and storage systems



Environmental Data

- Storage temperature range: -55°C to +125 °C
- Operating temperature range: -55°C to +125°C (ambient plus self-temperature rise)
- Solder reflow temperature: J-STD-020D compliant

Packaging

- Supplied in tape and reel packaging, 3,000 parts per 7" diameter reel

Part No.	OCL(μ H) $\pm 20\%$	FLL min.2 (μ H)	DCR (m Ω) @ 20°C		Irms3 Typ.(Amps)	Isat4 @ 25°C Typ.(Amps)
			TYP.	MAX.		
FXL252012-R33-M	0.33	0.165	14	17	7.0	4.3
FXL252012-R47-M	0.47	0.235	20	25	6.3	3.8
FXL252012-1R0-M	1.0	0.500	43	53	4.1	3.0
FXL252012-2R2-M	2.2	1.100	84	98	3.0	1.8

1 Open Circuit Inductance (OCL) Test Parameters: 1MHz, 0.25Vrms, 0.0Adc, @ +25°C.

2 Full Load Inductance (FLL) Test Parameters: 1MHz, 0.25Vrms, Isat @ +25°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.

4 Isat: Peak current for approximately 30% roll off at +25°C.

