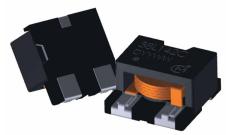


3800 Series

Flat Coil SM Power Inductors



FEATURES

- RoHS compliant
- High current, low DCR
- Surface mount
- UL94 V-0 package materials
- Pick & place compatible
- J-STD-020D reflow
- Backward compatible with Sn/Pb soldering systems

DESCRIPTION

The 3800 series is a range of surface mount, flat coil wound power inductors that is designed for use where high current and low loss is essential, such as in laptop computers and plasma screens.

ECTION GUIDE				
Order Code	Inductance (100kHz, 0.1Vac)	DC Current¹	Saturation Current ²	DC Resistance
	±20%	Max.	Typ.	Max.
	μH	Α	Α	mΩ
38L361C	0.36 ±30%	18	27	1.8
38L801C	0.80	16	20	2.5
38L142C	1.40	12.0	15	3.7
38L222C	2.20	9.6	12	5
38L322C	3.20	7.8	10	6.8
38L432C	4.30	6.8	8.8	9.7
38L572C	5.70	5.8	7.3	11.9
38L722C	7.20	5.3	6.6	15.5
38L882C	8.80	4.8	5.9	19.6
38S221C	0.22 ±30%	18	35	2.2
38S451C	0.45	16	27	2.6
38S801C	0.80	12.5	20	3.7
38S132C	1.30	10.5	17	5
38S182C	1.80	9.0	14	6.8
38S252C	2.50	7.2	12	9.7
38S322C	3.20	6.5	10	11.9
38S402C	4.00	5.5	9.1	15.1
38S502C	5.00	4.9	8.1	20.3
38H151C	0.15 ±30%	18	38	1.9
38H301C	0.30 ±30%	16	32	2.2
38H501C	0.50	12.5	24	3.7
38H801C	0.80	10.5	20	5
38H122C	1.20	9	17	6.8
38H152C	1.50	7.2	14	9.5
38H202C	2.00	6.5	12	11.8
38H252C	2.50	5.5	11	15.1
38H302C	3.00	4.9	9.4	19.4

ABSOLUTE MAXIMUM RATINGS	
Operating temperature range	-40°C to +130°C
Storage temperature range	-40°C to +150°C

SOLDERING INFORMATION ³	
Peak reflow temperature	245°C
Pin finish	Matte tin
Moisture sensitivity level	1

PACKAGING INFORMATION	
Tape & Reel	650 per reel

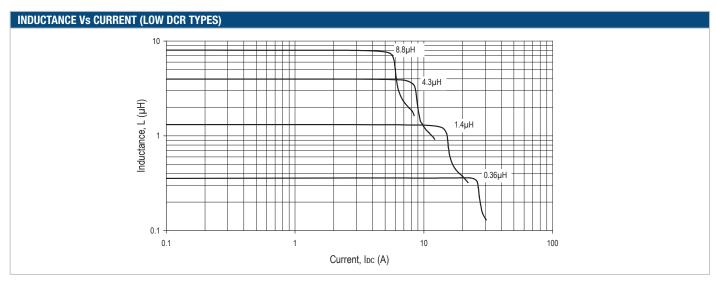


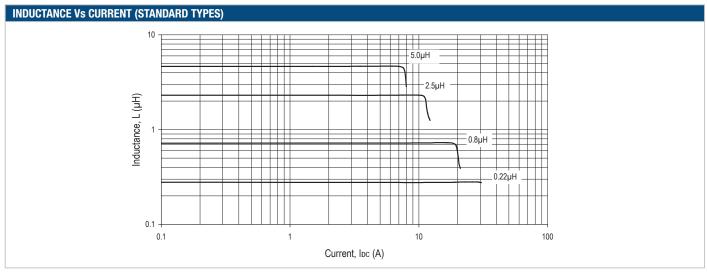


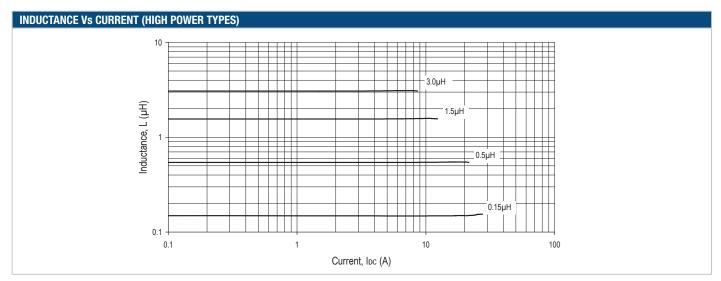
All specifications typical at $\rm T_{\scriptscriptstyle A}{=}25^{\circ}\rm C$

- 1 The maximum DC Current is the value at which the inductance falls to 65% (tolerance ±30%) or 75% (tolerance: ±20%) of its zero current value or until its temperature rise reaches 40°C, whichever is sooner.
- 2 The saturation current is the continuous current at 20°C ambient at which the inductance falls to 65% (tolerance: ±30%) or 75% (tolerance: ±20%) of its zero current value.
- 3 For further information, please visit www.murata-ps.com/rohs
- 4 Terminal 3 is open-circuit and for mounting stability only.

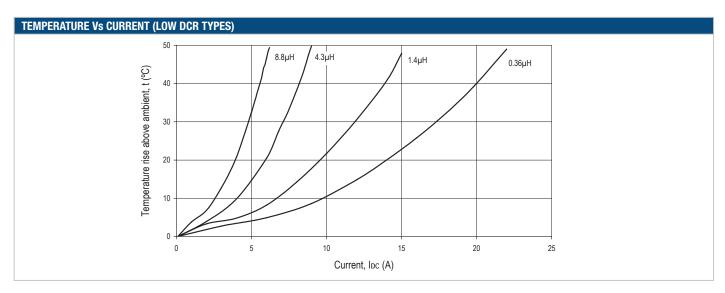
Flat Coil SM Power Inductors

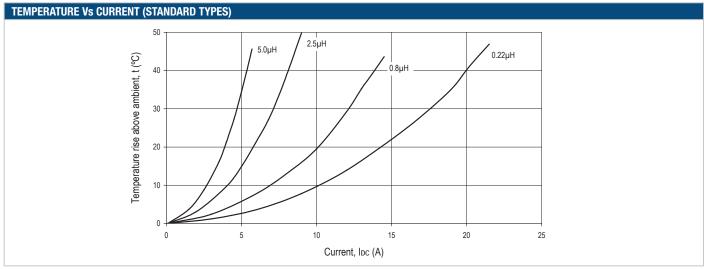


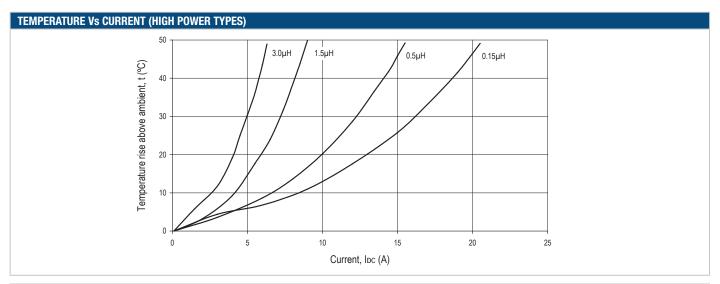




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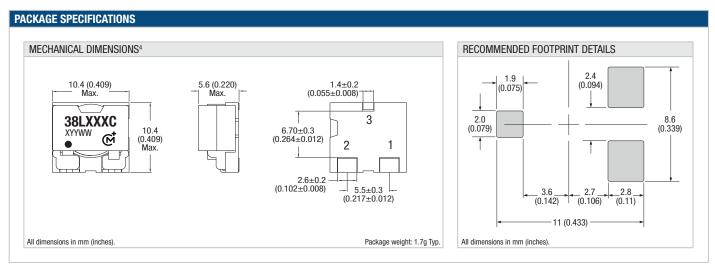


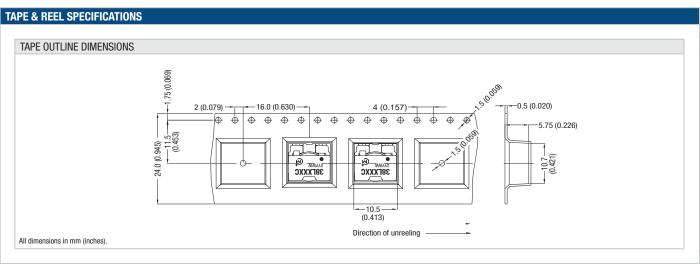






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- Undersea equipment
- Power plant control equipment
- Medical equipment
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- Traffic signal equipment
- Disaster prevention / crime prevention equipment
- Data Processing equipment

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