





■ 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			

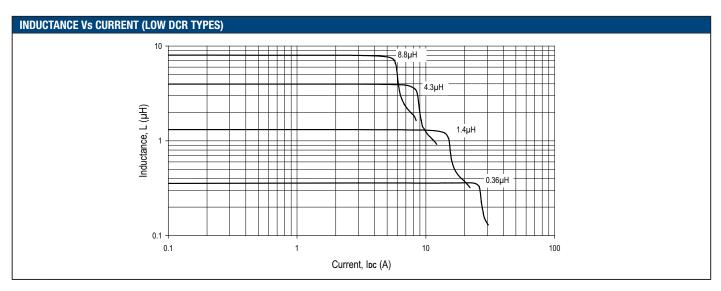
PACKAGING INFORMATION	
Tape & Reel	650 per reel

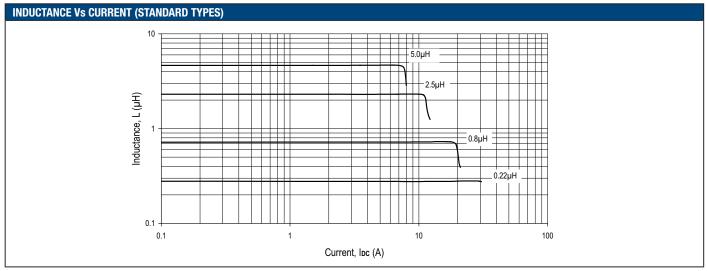
All specifications typical at T_A =25°C

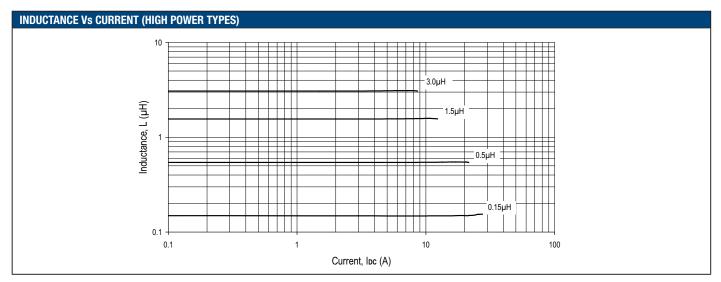
- 1 The maximum DC Current is the value at which the inductance falls to 65% (tolerance ±30%) or 75% (tolerance: ±20%) of its zero current value or until its temperature rise reaches 40°C, whichever is sooner.
- 2 The saturation current is the continuous current at 20°C ambient at which the inductance 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.

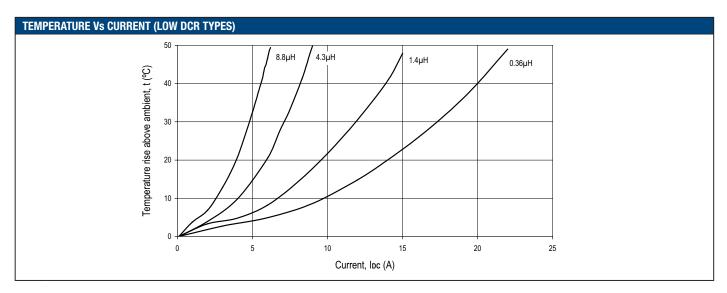


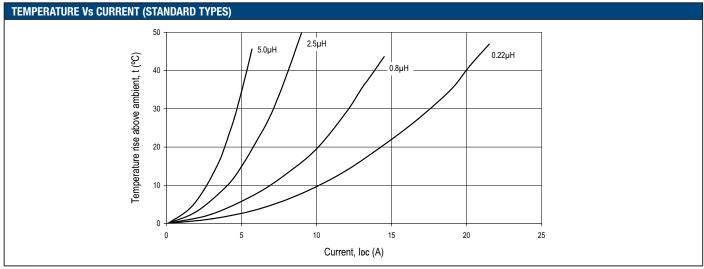


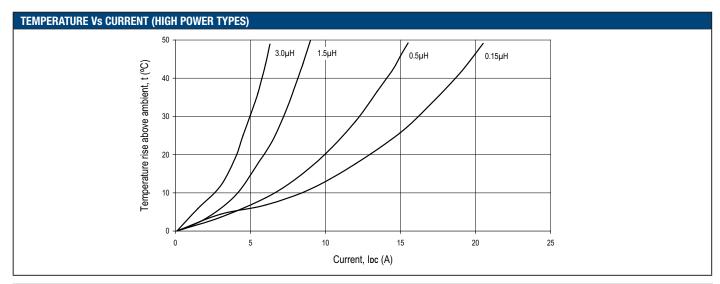






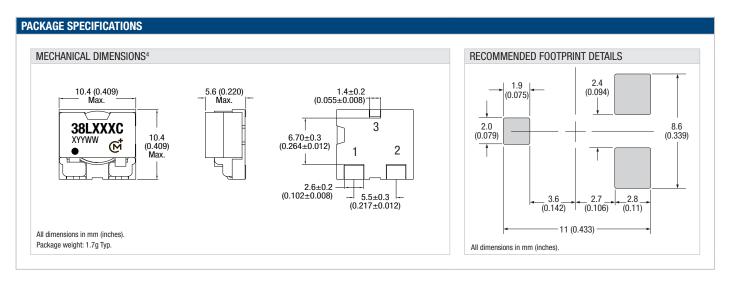


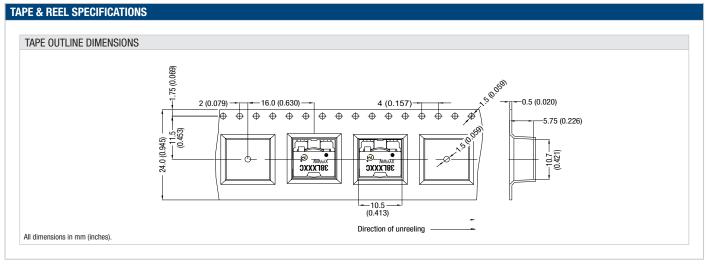












Murata Power Solutions, Inc.
11 Cabot Boulevard, Mansfield, MA 02048-1151 U.S.A.
ISO 9001 and 14001 REGISTERED

Murata Power Solutions, Inc. makes no representation that the use of its products in the circuits described herein, or the use of other technical information contained herein, will not infringe upon existing or future patent rights. The descriptions contained herein do not imply the granting of licenses to make, use, or sell equipment constructed in accordance therewith. Specifications are subject to change without notice.

Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

Murata:

38H122C 38H151C 38H152C 38H202C 38H252C 38H301C 38H302C 38H501C 38H801C 38L142C 38L22C
38L322C 38L361C 38L432C 38L572C 38L722C 38L801C 38L882C 38S132C 38S182C 38S221C 38S252C
38S322C 38S402C 38S451C 38S502C 38S801C