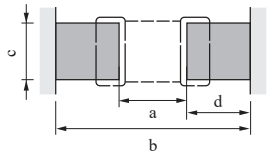
Inductors for Power Lines Soldering and Mounting

1. Standard Land Pattern Dimensions

A high Q value is achieved when the PCB electrode land pattern is designed so that it does not project beyond the chip Inductor's (chip coil's) electrode.

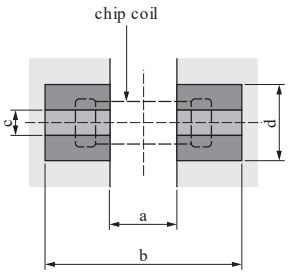
Land Pattern + Solder Resist Land Pattern Solder Resist

(in mm)

Series	Standard Land Dimensions
LQM18F/18P (Except for LQM18P_CH/FH/GH) LQM21D/21F/21P (Except for LQM21P_CA/CH/EH/GH) LQM2MP (Except for LQM2MP_GH) LQM2HP (Except for LQM2HP_CH/EH/GH/JH) LQM31P LQM32P LQH2MC LQH31C LQH32P LQH44P_P0/J0/GR LQH5BP LQH55D/66S LQW15CN_00 LQW15C_10 LQW18C	

Part Number		a	b	c	d
LQM18F/18P	Flow	0.7	2.2-2.6	0.7	–
	Reflow		1.8-2.0		
LQM21D/21F/21P		1.2	3.0-4.0	1.0	–
LQM2MP		0.8	2.4	1.8	–
LQM2HP		1.6	3.0	1.5	–
LQM31P		2.0	4.2-5.2	1.2	–
LQM32P		1.9	3.6	2.7	–
LQH2MC		0.8	2.6	1.0	–
LQH31C		1.0	4.5	1.5	–
LQH32P		1.3	3.8	2.0	–
LQH44P_P0		1.3	4.4	3.0	–
LQH44P_J0/GR		1.5	4.4	2.7	–
LQH5BP		1.8	5.5	4.1	1.85
LQH55D/66S		2.0	8.0	3.5	–
LQW15CN_00		0.4	1.4	0.6	–
LQW15C_10		0.4	1.4	0.66	–
LQW18C		0.7	2.2	1.0	–

LQM18P_CH/FH/GH
LQM21P_CA/CH/EH/GH
LQM2MP_GH
LQM2HP_CH/EH/GH/JH



Part Number	Rated Current (A)	a	b	c	Land Pad Thickness and Dimension d		
					18μm	35μm	70μm
LQM18P_CH	0-0.7	0.7	1.8-2.0	0.7	0.7	0.7	0.7
	0.7-1.05				1.1	0.7	0.7
LQM18P_FH	0-0.7	0.7	1.8-2.0	0.7	0.7	0.7	0.7
	0.7-1.7				1.4	0.7	0.7
LQM18P_GH	0-0.7	0.7	1.8-2.0	0.7	0.7	0.7	0.7
	0.7-1.15				1.2	0.7	0.7
LQM21P_CA	–	1.2	3.0-4.0	1.0	1.3	1.0	1.0
LQM21P_CH	0-1.0	1.2	3.0-4.0	1.0	1.0	1.0	1.0
	1.0-1.5				1.5	1.0	1.0
	1.5-				2.0	1.5	1.0
LQM21P_EH LQM21P_GH	0-1.0	1.2	3.0-4.0	1.0	1.0	1.0	1.0
	1.0-1.5				1.5	1.0	1.0
	1.5-3.1				3.0	1.5	1.0
LQM2MP_GH	0-1.5	0.8	2.4	1.8	1.8	1.8	1.8
	1.5-2.5				2.4	1.8	1.8
	2.5-5.0				5.0	2.4	1.8
LQM2HP_CH	0-1.5	1.6	3.0	1.5	1.5	1.5	1.5
	1.5-3.0				3.0	1.5	1.5
LQM2HP_EH	0-1.5	1.6	3.0	1.5	1.5	1.5	1.5
	1.5-3.0				3.0	1.5	1.5
	3.0-5.0				5.0	3.0	1.5
LQM2HP_GH	0-1.5	1.6	3.0	1.5	1.5	1.5	1.5
	1.5-2.6				2.4	1.5	1.5
	3.3-4.2				4.4	3.6	2.4
LQM2HP_JH	0-1.6	1.6	3.0	1.5	1.5	1.5	1.5
	1.6-2.4				2.4	1.5	1.5
	2.4-3.5				3.6	2.4	1.5