

SDRH Series

SMD Shielded Power Inductor

Size 1210



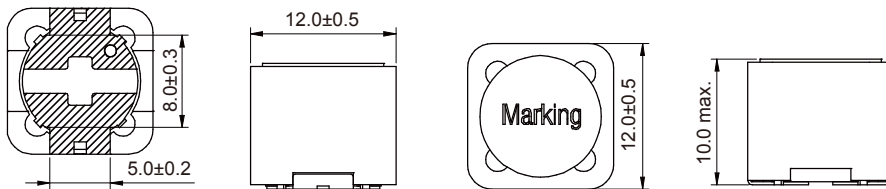
FEATURES

Magnetically shielded version which results in a low leakage field;
 Highest possible current loading for SMD Inductors;
 Low self-losses;
 Quantity: 250pcs;

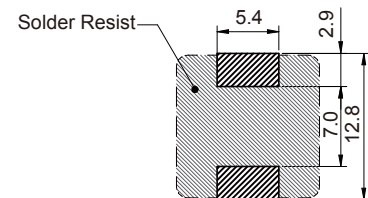
APPLICATIONS

Perfectly suitable for switching regulators with high efficiency;
 Integrated DC/DC-converter;
 Switching regulators with low operating voltages;

Dimensions: [mm]



Land Patterns: [mm]



Electrical Properties:

Part No	Inductance (μH)	Tolerance	Temperature Rise Current (A)	Saturation Current (A)	DCR Typ. (Ω)	DCR Max. (Ω)
SDRH1210-1R0M	1.0	±20%	13.0	25.0	0.0038	0.0060
SDRH1210-2R2M	2.2	+40/-20%	11.5	20.0	0.0049	0.0060
SDRH1210-3R5M	3.5	±20%	11.0	16.5	0.0059	0.0085
SDRH1210-4R7M	4.7	±20%	9.3	13.0	0.0074	0.0110
SDRH1210-6R8M	6.8	±20%	8.4	12.8	0.0091	0.0140
SDRH1210-100M	10.0	±20%	7.1	10.5	0.0129	0.0210
SDRH1210-150M	15	±20%	6.5	8.0	0.0207	0.0280
SDRH1210-220M	22	±20%	5.3	6.5	0.0233	0.0280
SDRH1210-270M	27	±20%	4.6	5.8	0.0300	0.0400
SDRH1210-330M	33	±20%	4.2	5.5	0.0368	0.0450
SDRH1210-390M	39	±20%	4.1	5.0	0.0440	0.0560
SDRH1210-470M	47	±20%	3.8	4.5	0.0459	0.0600
SDRH1210-680M	68	±20%	3.2	3.6	0.0686	0.0885
SDRH1210-820M	82	±20%	2.75	3.4	0.0905	0.1050
SDRH1210-101M	100	±20%	2.5	3.1	0.1000	0.1100

Part No	Inductance (μ H)	Tolerance	Temperature Rise Current (A)	Saturation Current (A)	DCR Typ. (Ω)	DCR Max. (Ω)
SDRH1210-151M	150	$\pm 20\%$	2.10	2.7	0.151	0.200
SDRH1210-221M	220	$\pm 20\%$	1.80	2.2	0.193	0.300
SDRH1210-271M	270	$\pm 20\%$	1.60	2.1	0.248	0.330
SDRH1210-331M	330	$\pm 20\%$	1.50	1.7	0.363	0.430
SDRH1210-471M	470	$\pm 20\%$	1.40	1.5	0.437	0.560
SDRH1210-681M	680	$\pm 20\%$	1.10	1.3	0.660	0.825
SDRH1210-821M	820	$\pm 20\%$	0.95	1.1	0.815	1.000
SDRH1210-102M	1000	$\pm 20\%$	0.90	1.0	0.930	1.200
SDRH1210-152M	1500	$\pm 20\%$	0.80	0.8	1.800	2.300

Operating Temperature : $-40^{\circ}\text{C} \sim +125^{\circ}\text{C}$

Saturation current will cause L to drop approximately 35% .

Temperature rise current: The actual value of DC current when the temperature rise is $\Delta T=40^{\circ}\text{C}$.