

SDRH Series

SMD Shielded Power Inductor

Size 1210



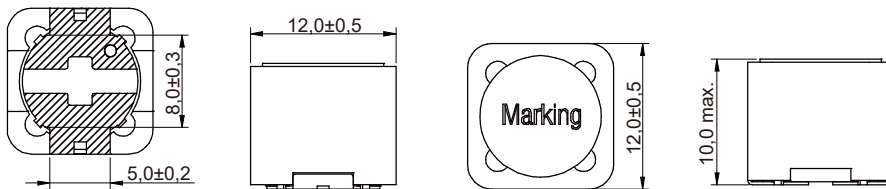
FEATURES

Magnetically shielded version which results in a low leakage field;
 Highest possible current loading for SMD Inductors;
 Low self-losses;
 Quantity: 500pcs;

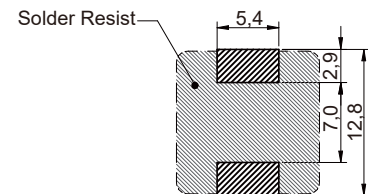
APPLICATIONS

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 (μ H)	Tolerance	Temperature Rise Current (A)	Saturation Current (A)	DCR Typ (Ω)	DCR Max. (Ω)
SDRH1210-1R0M	1.0	$\pm 20\%$	13.0	25.0	0.0038	0.006
SDRH1210-2R2M	2.2	$+40/-20\%$	11.5	20.0	0.0049	0.006
SDRH1210-3R5M	3.5	$\pm 20\%$	11.0	16.5	0.0059	0.0085
SDRH1210-4R7M	4.7	$\pm 20\%$	9.3	13.0	0.0074	0.011
SDRH1210-6R8M	6.8	$\pm 20\%$	8.4	12.8	0.0091	0.014
SDRH1210-100M	10	$\pm 20\%$	7.1	10.5	0.0129	0.021
SDRH1210-150M	15	$\pm 20\%$	6.5	8.0	0.0207	0.028
SDRH1210-220M	22	$\pm 20\%$	5.3	6.5	0.0233	0.028
SDRH1210-270M	27	$\pm 20\%$	4.6	5.8	0.030	0.040
SDRH1210-330M	33	$\pm 20\%$	4.2	5.5	0.0368	0.045
SDRH1210-390M	39	$\pm 20\%$	4.1	5.0	0.044	0.056
SDRH1210-470M	47	$\pm 20\%$	3.8	4.5	0.0459	0.060
SDRH1210-680M	68	$\pm 20\%$	3.2	3.6	0.0686	0.0885
SDRH1210-820M	82	$\pm 20\%$	2.75	3.4	0.0905	0.105
SDRH1210-101M	100	$\pm 20\%$	2.5	3.1	0.100	0.110

Part No	Inductance (μ H)	Tolerance	Temperature Rise Current (A)	Saturation Current (A)	DCR Typ (Ω)	DCR Max. (Ω)
SDRH1210-151M	150	$\pm 20\%$	2.1	2.7	0.151	0.20
SDRH1210-221M	220	$\pm 20\%$	1.8	2.2	0.193	0.30
SDRH1210-271M	270	$\pm 20\%$	1.6	2.1	0.248	0.33
SDRH1210-331M	330	$\pm 20\%$	1.5	1.7	0.363	0.43
SDRH1210-471M	470	$\pm 20\%$	1.4	1.5	0.437	0.56
SDRH1210-681M	680	$\pm 20\%$	1.1	1.3	0.660	0.825
SDRH1210-821M	820	$\pm 20\%$	0.95	1.1	0.815	1.00
SDRH1210-102M	1000	$\pm 20\%$	0.9	1.0	0.930	1.20
SDRH1210-152M	1500	$\pm 20\%$	0.8	0.8	1.800	2.30

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 $\Delta T=40^{\circ}\text{C}$.