

SDRH Series

SMD Shielded Power Inductor

Size 1280



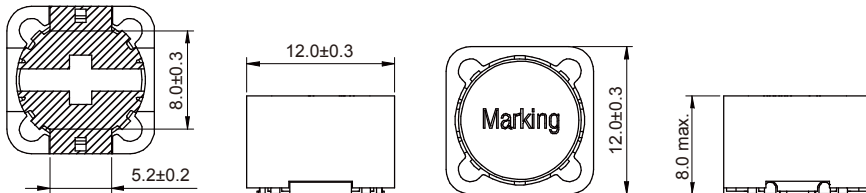
FEATURES

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

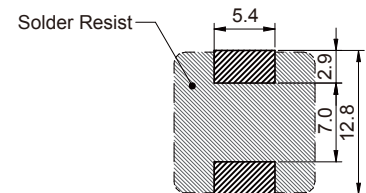
APPLICATIONS

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 (μH)	Tolerance	Temperature Rise Current (A)	Saturation Current (A)	DCR Typ. (Ω)	DCR Max. (Ω)
SDRH1280-R47R	0.47	+20/-25%	23.5	26.4	0.003	0.003
SDRH1280-R75R	0.75	+20/-25%	19.8	21.0	0.003	0.004
SDRH1280-1R2R	1.20	+20/-25%	12.0	16.6	0.005	0.007
SDRH1280-2R4R	2.40	+20/-25%	10.1	14.3	0.009	0.012
SDRH1280-3R5R	3.50	+20/-25%	8.90	9.60	0.011	0.014
SDRH1280-4R7R	4.70	+20/-25%	8.50	9.30	0.012	0.016
SDRH1280-6R1R	6.10	+20/-25%	7.60	8.60	0.015	0.018
SDRH1280-7R6R	7.60	+20/-25%	7.40	8.00	0.016	0.020
SDRH1280-100M	10	±20%	6.20	6.60	0.019	0.022
SDRH1280-120M	12	±20%	5.90	6.30	0.021	0.024
SDRH1280-150M	15	±20%	5.00	6.00	0.024	0.027
SDRH1280-180M	18	±20%	4.20	5.40	0.032	0.039
SDRH1280-220M	22	±20%	4.10	5.00	0.033	0.043
SDRH1280-270M	27	±20%	3.70	3.80	0.035	0.046
SDRH1280-330M	33	±20%	3.20	3.60	0.047	0.064
SDRH1280-390M	39	±20%	3.00	3.50	0.053	0.073
SDRH1280-470M	47	±20%	2.70	3.00	0.076	0.100
SDRH1280-560M	56	±20%	2.40	2.90	0.085	0.110
SDRH1280-680M	68	±20%	2.30	2.50	0.090	0.140
SDRH1280-820M	82	±20%	2.25	2.45	0.086	0.160
SDRH1280-101M	100	±20%	2.20	2.40	0.102	0.220
SDRH1280-151M	150	±20%	2.10	1.80	0.136	0.280

Part No	Inductance (μ H)	Tolerance	Temperature Rise Current (A)	Saturation Current (A)	DCR Typ. (Ω)	DCR Max. (Ω)
SDRH1280-181M	180	$\pm 20\%$	1.4	1.6	0.188	0.35
SDRH1280-221M	220	$\pm 20\%$	1.3	1.49	0.247	0.39
SDRH1280-331M	330	$\pm 20\%$	1.1	1.1	0.349	0.64
SDRH1280-471M	470	$\pm 20\%$	0.9	0.9	0.496	0.98
SDRH1280-561M	560	$\pm 20\%$	0.8	0.9	0.593	1.07
SDRH1280-681M	680	$\pm 20\%$	0.7	0.8	0.840	1.46
SDRH1280-821M	820	$\pm 20\%$	0.6	0.8	0.936	1.64
SDRH1280-102M	1000	$\pm 20\%$	0.6	0.7	1.040	1.82
SDRH1280-152M	1500	$\pm 20\%$	0.5	0.5	1.450	1.90

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