

MAGNETIC SHIELDED SURFACE-MOUNT POWER INDUCTORS

SDRH1209 SERIES

FEATURES:

- Shielded Structure
- Height of 10mm
- Current rating up to 11A
- RoHScompliant

OPTIONS:

- Tape & Reel is Standard (Qty:250pcs.)
- Bulk packaging Available for Smaller Quantities
- Tolerance:K=10%,M=20% is Standard, Tighter Tolerances Available

COMMON APPLCATIONS:

- Input/Output of DC-DC converter
- DC/DC converter
- Power supplies for: portable communication equipment
- Camcorder
- LCD,TV,PDA,PDP

ELECTRICAL CHARACTERISTICS: 25°C

Part Number	Inductance (uH) 1KHz,0.25V	Tol. %	Q Ref.	Q Test Freq. (MHz)	SRF (MHz) Typ.	DCR Max (mΩ)	Irms (A)	Isat (A)
SDRH1209-1R0Y	1.0	±30	10	7.96	85	6.0	11.0	16.5
SDRH1209-1R8Y	1.8	±30	10	7.96	56	7.5	10.2	13.2
SDRH1209-2R2Y	2.2	±30	10	7.96	54	9.0	9.5	12.2
SDRH1209-3R3Y	3.3	±30	15	7.96	44	10	9.0	10.5
SDRH1209-4R7Y	4.7	±30	8	7.96	35	12	8.5	9.6
SDRH1209-5R6Y	5.6	±30	12	7.96	28	14	8.0	8.5
SDRH1209-6R8Y	6.8	±30	12	7.96	20	15	7.9	8.3
SDRH1209-8R2Y	8.2	±30	11	7.96	16	17	7.3	7.5
SDRH1209-100M	10	±20	16	2.52	12	18	6.5	6.5
SDRH1209-120M	12	±20	14	2.52	18	22	6.3	6.1
SDRH1209-150M	15	±20	16	2.52	10.5	32	5.8	5.3
SDRH1209-180M	18	±20	13	2.52	8.0	35	5.5	5.1
SDRH1209-220M	22	±20	16	2.52	8.0	38	5.2	4.5
SDRH1209-270M	27	±20	16	2.52	6.5	40	5.0	4.2
SDRH1209-330M	33	±20	16	2.52	6.5	52	4.4	3.7
SDRH1209-390M	39	±20	16	2.52	4.5	66	4.2	3.5
SDRH1209-470M	47	±20	16	2.52	4.5	72	3.8	3.1
SDRH1209-560M	56	±20	8	2.52	4.0	90	3.4	2.9
SDRH1209-680M	68	±20	12	2.52	3.8	102	3.0	2.7
SDRH1209-820M	82	±20	15	2.52	3.5	112	2.8	2.5
SDRH1209-101M	100	±20	16	0.796	3.0	135	2.5	2.2
SDRH1209-121M	120	±20	13	0.796	2.6	170	2.3	1.9
SDRH1209-151M	150	±20	12	0.796	2.2	190	2.2	1.8
SDRH1209-181M	180	±20	14	0.796	1.8	250	1.9	1.6
SDRH1209-221M	220	±20	15	0.796	1.8	315	1.7	1.5
SDRH1209-271M	270	±20	16	0.796	1.8	410	1.5	1.3
SDRH1209-331M	330	±20	14	0.796	1.8	450	1.4	1.2
SDRH1209-391M	390	±20	16	0.796	1.3	600	1.3	1.1
SDRH1209-471M	470	±20	12	0.796	0.85	820	1.2	1.0
SDRH1209-561M	560	±20	12	0.796	0.85	900	1.1	0.95
SDRH1209-681M	680	±20	11	0.796	0.85	1200	1.0	0.85
SDRH1209-821M	820	±20	6	0.796	0.85	1320	0.85	0.75
SDRH1209-102M	1000	±20	22	0.796	0.85	1650	0.75	0.70

Operating Temperature.....-40°C to +125°C(Temperature rise included)

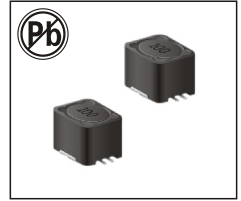
Storage Temperature.....-40°C to +125°C

Resistance to Soldering Heat.....260°C for 5 sec.

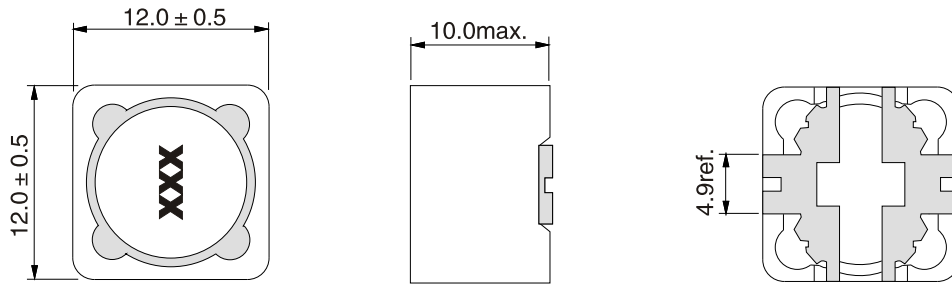
Rated Current.....Inductance drop of 20 % typ. at Isat

Temperature Rise.....40°C typ. at Irms

MAGNETIC SHIELDED SURFACE-MOUNT POWER INDUCTORS SDRH1209 SERIES



PRODUCT DIMENSIONS:



SCHEMATIC & RECOMMENDED LAYOUT:



CORE LOSS VS. FLUX DENSITY:

