



## Surface Mount Power Inductors SDRH8D38 Type Low Profile Shielded Inductors

### Description

- 125°C maximum total temperature operation
- Low profile surface mount inductor
- 8.3mm x 9.5mm x 4.0mm shielded drum core
- Ferrite core material
- Inductance range from 1.0μH to 220μH
- Current range from 10.2 Amps to 0.66 Amps
- Frequency range up to 1MHz

### Applications

- Server/Notebook power
- High Power LED driver, Portable devices
- Base Station, Telecom, and Networking
- Battery Chargers, RAM power supply
- Industrial and Automotive power systems
- Noise filtering output filter chokes
- Buck/Boost converters, Output converters

### Environmental Data

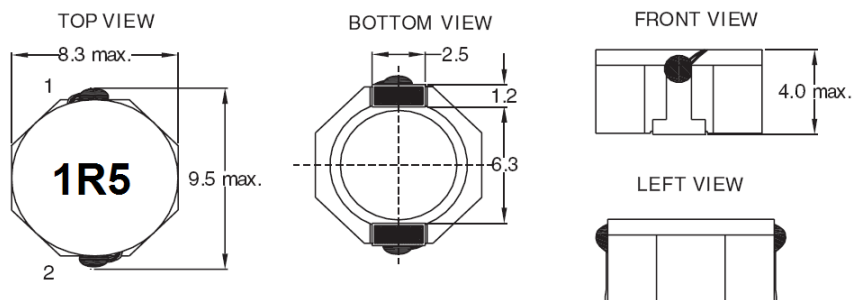
- Storage temperature range: -40°C to +125°C
- Operating temperature range: -40°C to +125°C (range is application specific)
- Solder reflow temperature: +260°C max. for 10 Seconds Maximum

### Packaging

- Supplied in tape and reel packaging, 1000 parts per reel (13").



### Mechanical Diagrams (Unit:mm)



Part No.	Inductance <sup>(1)</sup> (μH)±30%	DC Resistance <sup>(2)</sup> (mΩ) Max	Isat <sup>(3)</sup> (A) Max	Irms <sup>(4)</sup> (A) Max	Marking Code <sup>(5)</sup>
SDRH8D38-1R0N	1.0	7.3	10.2	8.95	1R0
SDRH8D38-1R5N	1.5	11.8	7.95	6.96	1R5
SDRH8D38-2R2N	2.2	17.8	6.51	5.69	2R2
SDRH8D38-3R3N	3.3	25.6	5.51	4.82	3R3
SDRH8D38-4R7N	4.7	28.6	4.77	4.18	4R7
SDRH8D38-6R8N	6.8	45.7	3.77	3.30	6R8
SDRH8D38-100N	10	68.9	3.11	2.72	100
SDRH8D38-150N	15	88.1	2.47	2.16	150
SDRH8D38-220N	22	132.6	2.05	1.79	220
SDRH8D38-330N	33	197.4	1.75	1.53	330
SDRH8D38-470N	47	239.2	1.46	1.28	470
SDRH8D38-680N	68	376.1	1.17	1.03	680
SDRH8D38-101N	100	564.2	0.98	0.86	101
SDRH8D38-151N	150	838.0	0.80	0.70	151
SDRH8D38-221N	220	1313.6	0.66	0.57	221

### Notes:

- 1) Open Circuit Inductance Test Parameters: 100kHz, 0.10Vrms, 0.0Aac, Test Equipment : HP4284A or WK3260B LCR Meter.
- 2) DCR limits @ 20°C. Test Equipment: CH502BC.
- 3) Isat current for an approximate 35% rolloff at 20°C
- 4) I rms current for for an approximate T of 40°C. It is recommended that the temperature of the part not exceed 125°C
- 5) The Marking Code.

