

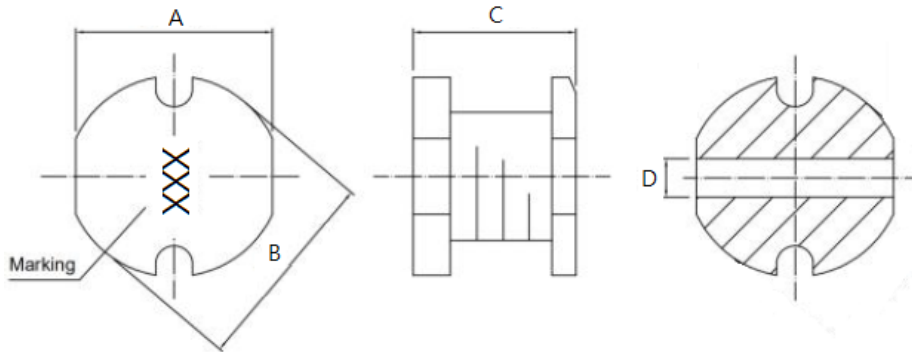
SDR3020-Series-H2 Specification

SMD Unshielded Power Inductor

APPLICATION

Tablet terminals, HDDs, SSDs, DVCs, DSCs, mobile display panels, portable game devices, Telecommunications, Consumer electronics, Compact power supply modules, other

1. Shapes and Dimensions



Unit: mm

Type	A	B	C	D
SDR3020	3.30 Max.	3.80 Max.	2.40 Max.	1.00 Ref.

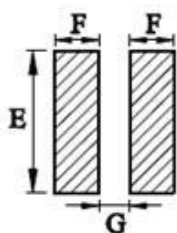
2. Ordering / Part Number Information

SDR 3020 - 1R0 M - H2
(1) (2) (4) (5) (6)

- (1) Product Group
- (2) Dimension Code
- (3) Inductance Code: R means Decimal point
- (4) Inductance Tolerance
- (5) Control Code

3. Recommended Soldering Condition

3-1. Recommended Land Pattern

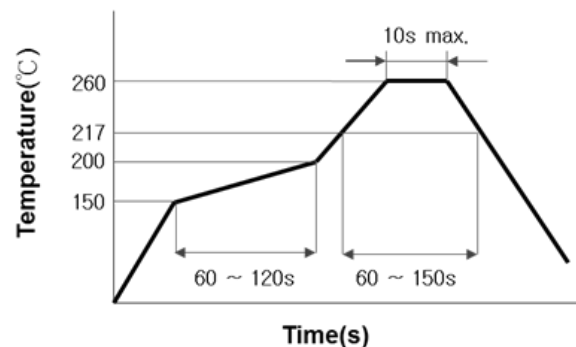


Unit : mm

Symbol	Dimension
E	3.60 Ref.
F	1.50 Ref.
G	1.00 Ref.

The Recommended Land pattern is for reference only.
Please consult your manufacturing partners to ensure your company's PCB design guidelines are met

3-2. Recommended Soldering Profile



4. Electrical Characteristics

4-1. Electrical Specification

Part Number	Inductance (L)	Test Freq.	DC Resistance (R _{DC}) Max.	Rated Current (I _{DC}) Typ.	Marking
SDR3020-1R0M-H2	1.0μH±20%	7.96MHz	0.07Ω	3.20A	1R0
SDR3020-1R5M-H2	1.5μH±20%	7.96MHz	0.11Ω	2.40A	1R5
SDR3020-1R8M-H2	1.8μH±20%	7.96MHz	0.11Ω	2.10A	1R8
SDR3020-2R2M-H2	2.2μH±20%	7.96MHz	0.13Ω	1.90A	2R2
SDR3020-3R3M-H2	3.3μH±20%	7.96MHz	0.17Ω	1.60A	3R3
SDR3020-3R9M-H2	3.9μH±20%	7.96MHz	0.19Ω	1.50A	3R9
SDR3020-4R7M-H2	4.7μH±20%	7.96MHz	0.21Ω	1.30A	4R7
SDR3020-5R6M-H2	5.6μH±20%	7.96MHz	0.22Ω	1.18A	5R6
SDR3020-6R8M-H2	6.8μH±20%	7.96MHz	0.25Ω	1.10A	6R8
SDR3020-8R2M-H2	8.2μH±20%	7.96MHz	0.28Ω	0.86A	8R2
SDR3020-100M-H2	10.0μH±20%	2.52MHz	0.32Ω	0.80A	100
SDR3020-120M-H2	12.0μH±20%	2.52MHz	0.35Ω	0.73A	120
SDR3020-150K-H2	15.0μH±10%	2.52MHz	0.40Ω	0.68A	150
SDR3020-180K-H2	18.0μH±10%	2.52MHz	0.48Ω	0.60A	180
SDR3020-220K-H2	22.0μH±10%	2.52MHz	0.60Ω	0.56A	220
SDR3020-270K-H2	27.0μH±10%	2.52MHz	0.65Ω	0.53A	270
SDR3020-330K-H2	33.0μH±10%	2.52MHz	0.80Ω	0.52A	330
SDR3020-390K-H2	39.0μH±10%	2.52MHz	0.90Ω	0.46A	390
SDR3020-470K-H2	47.0μH±10%	2.52MHz	1.19Ω	0.41A	470
SDR3020-560K-H2	56.0μH±10%	2.52MHz	1.27Ω	0.36A	560
SDR3020-680K-H2	68.0μH±10%	2.52MHz	1.73Ω	0.34A	680
SDR3020-820K-H2	82.0μH±10%	2.52MHz	1.99Ω	0.30A	820
SDR3020-101K-H2	100.0μH±10%	1KHz	2.52Ω	0.28A	101
SDR3020-121K-H2	120.0μH±10%	1KHz	2.90Ω	0.23A	121
SDR3020-151K-H2	150.0μH±10%	1KHz	3.36Ω	0.21A	151
SDR3020-181K-H2	180.0μH±10%	1KHz	5.10Ω	0.19A	181
SDR3020-221K-H2	220.0μH±10%	1KHz	5.80Ω	0.18A	221
SDR3020-271K-H2	270.0μH±10%	1KHz	7.80Ω	0.15A	271

Note1. Rated Current for Inductance becomes 10% lower than its initial value.

(Test by a short period of time to minimize the self-heating effect of the component.)

4-2. Operating Temperature Range

-40°C to +105°C (Including self - temperature rise)

4-3. Storage Temperature Range

Store this product under the condition of 5°C to 35°C, 20% to 70%RH and use within 6 months

5. Package Quantity

Standard Quantity for Packaging: 3,000 pcs/Reel

Note

1. Please make sure that your product is has been evaluated and confirmed against your specifications when our product is mounted to your product.
2. Do not knock nor drop.
3. All the items and parameters in this product specification have been prescribed on the premise that our product is used for the purpose, under the condition and in the environment agreed upon between you and us. You are requested not to use our product deviating from such agreement.
4. Please keep the distance between transformer/coil and other components (refer to the standard IEC 950)

Reference