

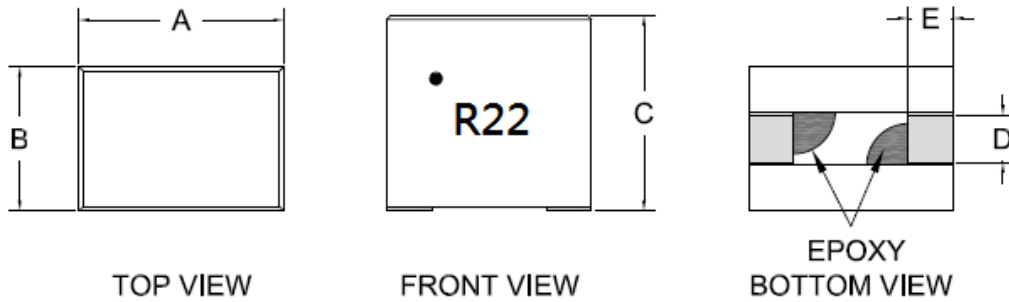
SDPI100709A-R22M-B2 Specification

SMD Type 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	E
SDPI100709A	10.0±1.0	7.0±0.5	9.3±0.2	2.3 Ref.	2.2 Ref.

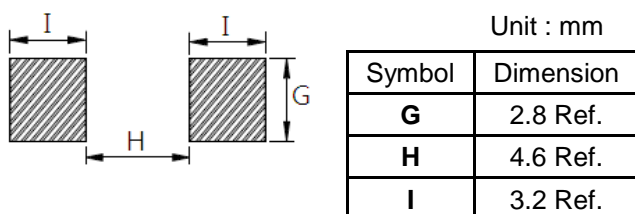
2. Ordering / Part Number Information

SDPI 100709 A - R22 M - B2
 (1) (2) (3) (4) (5) (6)

- (1) Product Group
- (2) Dimension Code
- (3) Type Code
- (4) Inductance Code
- (5) Inductance Tolerance
- (6) Control Code

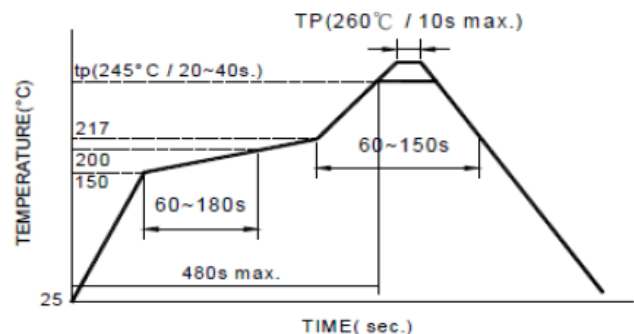
3. Recommended Soldering Condition

3-1. Recommended Land Pattern



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) @100kHz, 1.0V	Q @100KHz (Min)	DC Resistance (R _{DC})	Saturation Current (I _{SAT}) Typ.	Temperature Rise Current (I _{RMS}) Typ.
SDPI100709A-R22M-B2	0.22μH±20%	25	0.29mΩ±10%	60A	40A

Note1. I_{SAT} (A) current will cause L₀ to drop approximately 30% typical. (keep quickly)

Note2. I_{RMS} will cause coil temperature rise approximately $\Delta T \leq 40^{\circ}\text{C}$ without core loss. (keep 1minutes)

Note3. When measuring Q, make sure that the test object is in good contact

4-2. Operating Temperature Range

-40°C to +125°C (Including self - temperature rise)

4-3. Storage Temperature Range

Store this product under the condition of 5°C to 40°C, 20% to 70%RH and use within 6 months.

5. Package Quantity

Standard Quantity for Packaging: 400pcs/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)
5. Soldering corrections after mounting should be within the range of the conditions determined in the specifications.
Do not touch the component while it is high temperature (higher than room temperature)