SLPI0506B-Series-Z3 Specification

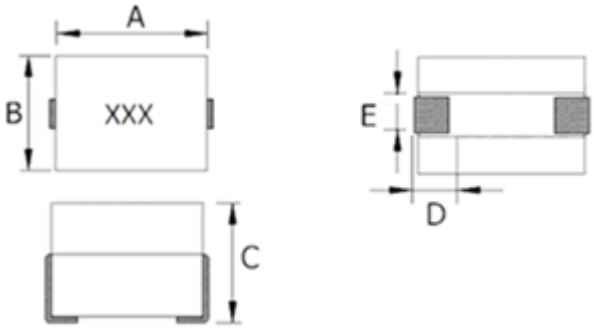
SMD Type Power Inductor

耕興股份有限公司
SPORTON INTERNATIONAL INC.

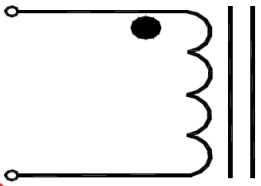
APPLICATION

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

Shapes and Dimensions



SCHEMATIC DIAGRAM



Unit: mm

Type	A	B	C	D	E
SLPI0506B	5.00 Max.	5.00 Max.	6.60 Max.	1.4 Ref.	2.0 Ref.

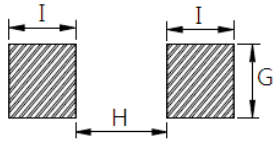
2. Ordering / Part Number Information

SLPI	0506	B	-	22N	M	-	Z3
(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

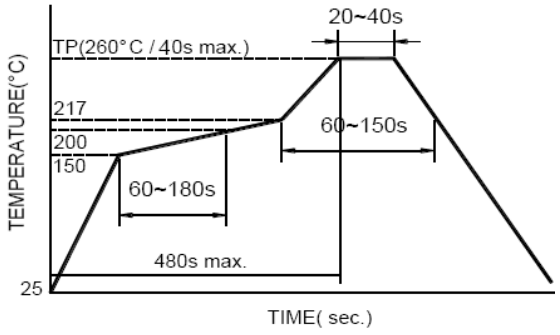


Unit : mm

Symbol	Dimension
G	2.60
H	1.60
I	2.00

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, 0.1V	DC Resistance (R_{DC})	Saturation Current (I_{SAT0}) Typ.@25℃	Temperature Rise Current (I_{RMS}) Typ. @25℃	Marking
SLPI0506B-50NM-Z3	50nH±20%	0.2mΩ±7%	70A	34A	R05
SLPI0506B-80NM-Z3	80nH±20%		48A		R08
SLPI0506B-R11M-Z3	110nH±20%		31A		R11

Note1. I_{SAT} (A) current will cause L_0 to drop approximately 20% typical. (keep quickly)
Note2. I_{RMS} will cause coil temperature rise approximately $\Delta T \leqq 40℃$ without core loss. (keep 1minutes)

4-2. Operating Temperature Range

-40℃ to +125℃ (Including self - temperature rise)

4-3. Storage Temperature Range

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

5. Package Quantity

Standard Quantity for Packaging: 800 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)
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)