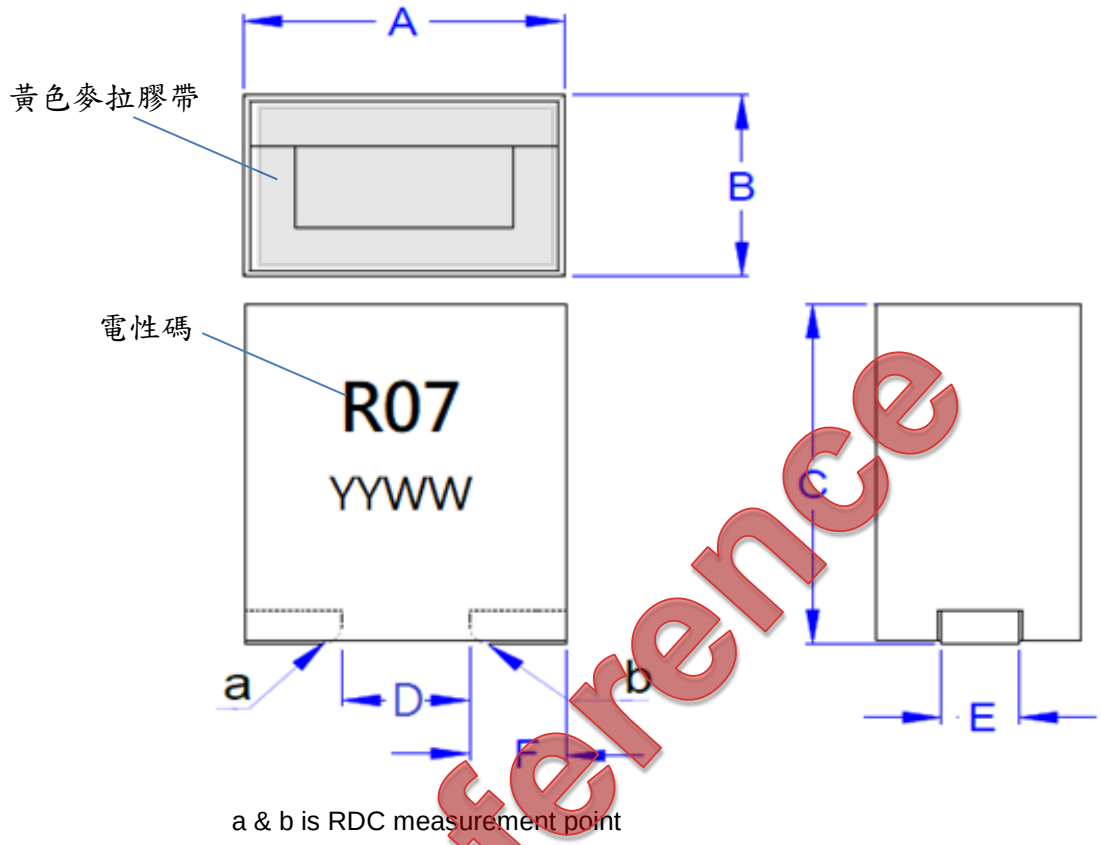
SEPI100612A-Series Specification
SMD Type Power Inductor

耕興股份有限公司
SPORTON INTERNATIONAL INC.

APPLICATION

Smart phones, tablet terminals, HDDs, SSDs, DVCs, DSCs, mobile display panels, portable game devices, compact power supply modules, other

1. Shapes and Dimensions



a & b is RDC measurement point

unit：mm

Type	A	B	C	D	E	F
SEPI100612A	10.0 max	6.0 max	12.0 max	3.65±0.4	2.30±0.4	2.95±0.4

Note：YY.XX.=Year、Week

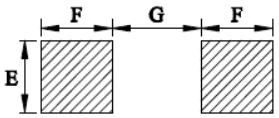
2. Ordering / Part Number Information

SEPI	100612	A	-	R07	M
(1)	(2)	(3)		(4)	(5)

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

3. Recommended Soldering Condition

3-1. Recommended Land Pattern

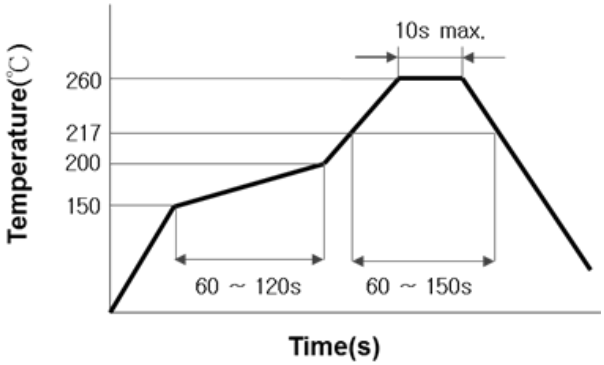


Unit : mm

Symbol	Dimension
E	3.3 Ref.
F	3.2 Ref.
G	3.9 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) @500kHz, 0.1V	DC Resistance (R_{DC})	Saturation Current (I_{SAT}) Typ.	Temperature Rise Current (I_{RMS}) Typ.	Marking
SEPI100612A-R07M	70nH±20%	0.125mΩ±10%	150A	77A	R07
SEPI100612A-R10L	100nH±15%	0.125mΩ±10%	126A	77A	R10
SEPI100612A-R12L	120nH±15%	0.125mΩ±10%	105A	77A	R12

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

-55℃ to +130℃(Including self - temperature rise)

4-3. Storage Temperature Range

Store this product under the condition of -40℃ to 85℃, 20% to 75%RH and use within 6 months

5. Package Quantity

Standard Quantity for Packaging: 350 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)