

SURFACE MOUNT HIGH CURRENT POWER INDUCTORS /SMPI TYPE

FEATURES

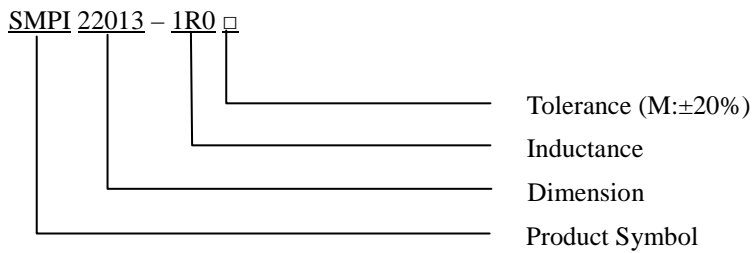
- ◆ Performance low resistance , high current rating.
- ◆ Low loss realized with low RDC.
- ◆ Low core loss.



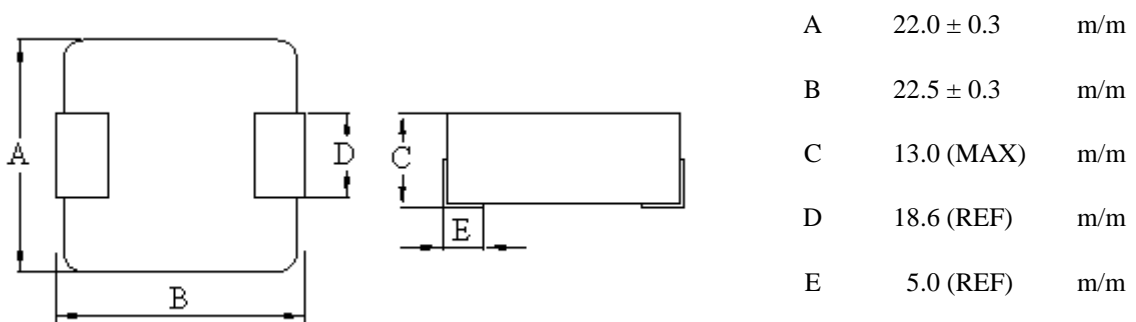
APPLICATIONS

- ◆ PDA / Notebook / Desktop, and server applications.
- ◆ DC/DC converters in distributed power systems.
- ◆ DC/DC converter for Field Programmable Gate Array(FPGA).

ORDERING CODE



DIMENSIONS UNIT: mm



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ELECTRICAL CHARACTERISTICS FOR SMPI 22013

| Part No. | Inductance (uH) @(0A) | Test Frequency | Heat Rating Current Irms(A) | Saturation Current Isat (A) drop30% | RDC (mΩ) MAX |
|----------------|--------------------------|----------------|--------------------------------|---|-----------------|
| SMPI22013-1R0M | 1.0 | 100KHz/1V | 60 | 75 | 1.1 |
| SMPI22013-1R5M | 1.5 | 100KHz/1V | 55 | 70 | 1.2 |
| SMPI22013-2R2M | 2.2 | 100KHz/1V | 50 | 65 | 1.5 |
| SMPI22013-3R3M | 3.3 | 100KHz/1V | 48 | 60 | 1.8 |
| SMPI22013-4R7M | 4.7 | 100KHz/1V | 45 | 55 | 2.0 |
| SMPI22013-5R6M | 5.6 | 100KHz/1V | 40 | 52 | 2.5 |
| SMPI22013-6R8M | 6.8 | 100KHz/1V | 35 | 42 | 3.5 |
| SMPI22013-100M | 10 | 100KHz/1V | 32 | 40 | 4.5 |
| SMPI22013-150M | 15 | 100KHz/1V | 22 | 30 | 6.8 |
| SMPI22013-220M | 22 | 100KHz/1V | 19 | 26 | 11.0 |
| SMPI22013-330M | 33 | 100KHz/1V | 16 | 23 | 17.5 |
| SMPI22013-470M | 47 | 100KHz/1V | 13 | 18 | 24.0 |
| SMPI22013-560M | 56 | 100KHz/1V | 12 | 16 | 35.0 |
| SMPI22013-680M | 68 | 100KHz/1V | 11 | 13 | 38.0 |
| SMPI22013-750M | 75 | 100KHz/1V | 10 | 12 | 39.0 |
| SMPI22013-820M | 82 | 100KHz/1V | 9.0 | 11 | 40.0 |
| SMPI22013-101M | 100 | 100KHz/1V | 8.0 | 10 | 45.0 |
| SMPI22013-151M | 150 | 100KHz/1V | 6.0 | 8.0 | 80.0 |
| SMPI22013-201M | 200 | 100KHz/1V | 5.0 | 6.0 | 105 |
| SMPI22013-221M | 220 | 100KHz/1V | 4.5 | 5.5 | 125 |
| SMPI22013-401M | 400 | 100KHz/1V | 2.5 | 4.0 | 230 |

Notes:

- 1) You require another part number please contact with us.
- 2) Inductance Tolerance $\pm 20\%$; Frequency Test : 100KHz/1.0v
- 3) All test data is referenced to 25°C ambient.
- 4) Irms : DC current (A) that will cause an approximate ΔT of 40°C
- 5) Isat : DC current (A) that will cause L_o to drop approximately 30%
- 6) We can design according to customer's request.

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