

SURFACE MOUNT HIGH CURRENT POWER INDUCTORS / ST TYPE

FEATURES

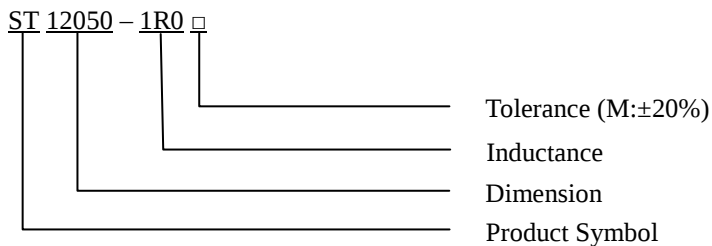
- ◆ High current, low loss of iron powder core.
- ◆ Low profile for machine placement.
- ◆ Minimize electromagnetic interference.
- ◆ Suppress common mode noise.
- ◆ Prevent EMI effect via precise impedance.
- ◆ Custom design available.



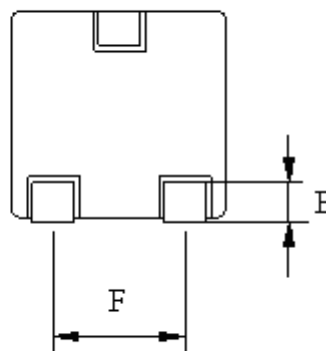
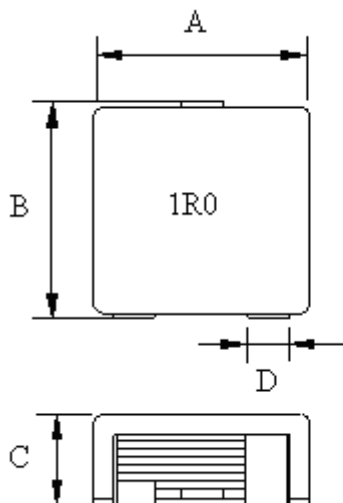
APPLICATIONS

- ◆ 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)



A	12.7 ± 0.4	m/m
B	13.5 ± 0.5	m/m
C	5.0 ± 0.3	m/m
D	2.4 ± 0.3	m/m
E	2.5 ± 0.5	m/m
F	7.8 (REF)	m/m

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ELECTRICAL CHARACTERISTICS FOR ST12050

Part No.	Inductance (uH)	Test Frequency (MHz)	RDC (mΩ) Max	IDC (A) Max
ST12050-1R0M	1.0	100KHz/0.1V	2.0	28
ST12050-1R5M	1.5	100KHz/0.1V	3.5	24
ST12050-2R2M	2.2	100KHz/0.1V	5.0	18
ST12050-3R0M	3.0	100KHz/0.1V	5.5	14.4