







# DISCRIPTION

#### **FEATURES**

#### **OPTIONS**

Tape & Reel is Standard
Bulk Packing Available for smaller quantites
Tolerance: M=20% is Standard

#### **APPLICATIONS**

DC-DC Converter
Notebook
PDA
Mobile Hand-Phone
Step-down Converters
Flash Memory

# PHYSICAL CHARACTERISTICS

- Inductance tested at 100 kHz, 0,1 Vrms, 0 Adc at 4284A (HP) LCR meter or equivalent.
- Isat : DC current at which the inductance drops 10% (typ) from its value without current.
- Irms: Average current for 15°C temperature rise from 25°C ambient.
- Operating temperature range -40°C ~ +85°C.
- Electrical specifications at 25°C.

# **ELECTRICAL SPECIFICATIONS**

Properties	Test conditions		Value	Unit	Tol.
Inductance		L	151	μH	see Site 2
Q factor		Q			min.
DC-resistance		DCR typ.		Ω	typ.
DC-resistance		DCR max.	2,5	Ω	max.
Self-Res. Freq.		SRF	12	Mhz	min.
Test-Freq.				Mhz	
Rated Current		Irms	400	mA	max.
Saturation Current		Isat	250	mA	typ.

1. This electronic component is meant to be used in general electronic equipment. Before the incorporation SMT Unshielded of this component into any equipment with higher and more reliable requirements such as aviation, **Power Inductor** aerospace, submarine, nuclear control, transportation, transportation signal, disaster prevention, medical, public information network, etc. or if there is a possibility of injuries or damages to the human body, Edcon -Components must be informed before the stage of design-in. Evaluation checks for safety have to be Part No.: S16002-151 performed on each electronic components used in electrical circuits that require high safety and reliability functions. Customer: DRW: Chang CHKD Young MATL: Chu Chi DATE 11.06.2009 APPD: **FINISH** Vienna Pong Sheet 1 from 2



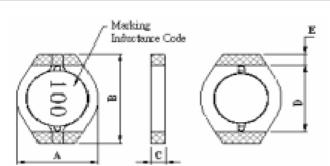






# **TECHNICAL INFORMATIONS**

### Dimensions ( mm )



7,87 max Α 9,14 max 1,65 max D  $7,40 \pm 0,15$  $0.87 \pm 0.30$ 

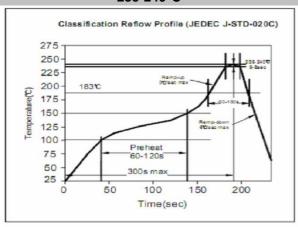
# **Ordering Information**

Serie and Range
S16002-151

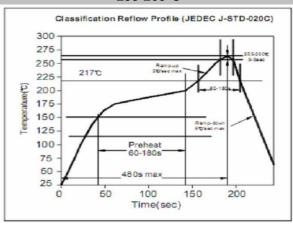
Tolerance	ROHS	Packing		
M	R	TR		

#### M = 20% $\mathbf{R} = \text{ROHS}$ **BU** = Bulk Ware N = non ROHS TR = Tape Reel

# **Soldering Profile for Lead Free Soldering** 235-240°C



# **Soldering Profile for Lead Free Soldering** 255-260°C



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# SMT Unshielded **Power Inductor**

Part No.: S16002-151

Customer:

DRW:	Chang	CHKD	Young	MATL:	Chu Chi	DATE	11.06.2009
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