







#### DISCRIPTION

#### **FEATURES**

Low resistance to keep power loss minimum.

#### **OPTIONS**

Tape & Reel is Standard Tolerance: M=20% is Standard, Tighter Tolerances Available

#### **APPLICATIONS**

Excellent for power line DC-DC conversion applications used in hard disk, notebook computers and other electronic equipment.

### PHYSICAL CHARACTERISTICS

- Inductance is measured by LCR-meter 4284A/4286A (HP) or equivalent.
- DC Resistance is measured by HP4338B Milliohms Meter or equivalent.
- Rated current is measured by LCR-meter 3260B (WK) & DC Bias 3265B(WK).
- Maximum allowable DC current is that which causes a 25% inductance reduction from the initial value, or coil temperature to rise by 40°C, whichever is smaller.
  ( Reference ambient temperature 20°C )
- Operating temperature: -55°C ~ +125°C

### **ELECTRICAL SPECIFICATIONS**

Properties	Test conditions		Value	Unit	Tol.
Inductance		L	680	μH	see Site 2
Q factor		Q			min.
DC-resistance		DCR typ.		mΩ	typ.
DC-resistance		DCR max.	7,32	mΩ	max.
Self-Res. Freq.		SRF		MHz	min.
Test-Freq.			1	KHz	
Rated Current		IDC	0,17	Α	max.
Saturation Current		Isat		Α	max.

1. This electronic component is meant to be used in general electronic equipment. Before the incorporation **SMT SHIELD** of this component into any equipment with higher and more reliable requirements such as aviation, **POWER INDUCTORS** 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.: S44002-681 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 26.06.2009 APPD: **FINISH** Vienna 1 from 2 Pong Sheet



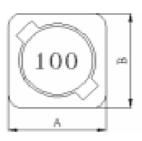




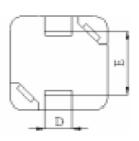


#### **TECHNICAL INFORMATIONS**

#### Dimensions (mm)







**A**  $6.2 \pm 0.3$  **B**  $6.0 \pm 0.3$ 

**C** 5,0 Max **D**  $1,5 \pm 0,2$ 

**E**  $2.8 \pm 0.2$ 

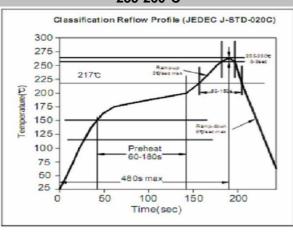
#### **Ordering Information**

Serie and Range	
S44002-681	

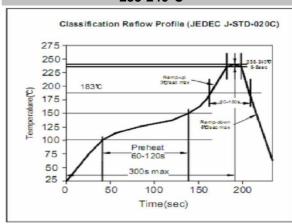
Tolerance	ROHS	Packing
M	R	TR

<b>K</b> = 10%	R = ROHS	<b>BU</b> = Bulk Ware
<b>M</b> = 20%	N = non ROHS	TR = Tape Reel

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



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



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functions.

# SMT SHIELD POWER INDUCTORS

Part No.: **\$44002-681** 

Customer:

DRW:	Chang	CHKD	Young	MATL:	Chu Chi	DATE	26.06.2009
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