







#### DISCRIPTION

#### **FEATURES**

Magnetic Shielded surface mount inductor with high current rating.

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 conversions used in hard disk, notebook computer 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
- All test data is referenced to 25°C ambient

#### **ELECTRICAL SPECIFICATIONS**

Properties	Test conditions		Value	Unit	Tol.
Inductance		L	180	μH	see Site 2
Q factor		Q			min.
DC-resistance		DCR typ.		Ω	typ.
DC-resistance		DCR max.	1,45	Ω	max.
Self-Res. Freq.		SRF		MHz	min.
Test-Freq.			1	KHz	
Rated Current		IDC	0,39	Α	max.
Saturation Current		Isat		Α	max.

This electronic component is meant to be used in general electronic equipment. Before the incorporation of this component into any equipment with higher and more reliable requirements such as aviation, 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 performed on each electronic components used in electrical circuits that require high safety and reliability functions.

### SMT SHIELDED POWER INDUCTOR

Part No.: **\$47001-181** 

Customer:

DRW: Chang CHKD Young MATL: Chu Chi DATE 29.06.2009
APPD: Pong FINISH Vienna Sheet 1 from 2



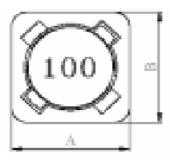






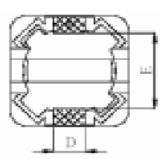
#### **TECHNICAL INFORMATIONS**

#### Dimensions (mm)



**A**  $7.3 \pm 0.3$  **B**  $7.3 \pm 0.3$ 

**C** 3,5 max **D** 1,8 ± 0,2



**E**  $5.0 \pm 0.2$ 

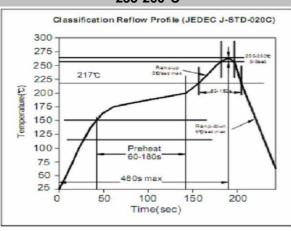
#### **Ordering Information**

Serie and Range			
S47001-181			

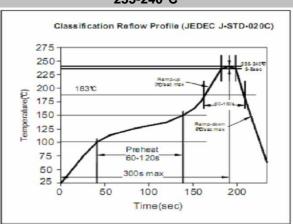
Tolerance	ROHS	Packing	
M	R	TR	

<b>K</b> = 10%	R = ROHS	<b>BU</b> = Bulk Ware
M = 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



1. This electronic component is meant to be used in general electronic equipment. Before the incorporation of this component into any equipment with higher and more reliable requirements such as aviation, 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 performed on each electronic components used in electrical circuits that require high safety and reliability

functions.

# SMT SHIELDED POWER INDUCTOR

Part No.: **\$47001-181** 

Customer:

DRW: Chang CHKD Young MATL: Chu Chi DATE 29.06.2009
APPD: Pong FINISH Vienna Sheet 2 from 2