







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	82	μH	see Site 2
Q factor		Q			min.
DC-resistance		DCR typ.		mΩ	typ.
DC-resistance		DCR max.	0,69	mΩ	max.
Self-Res. Freq.		SRF		MHz	min.
Test-Freq.			1	KHz	
Rated Current		IDC	0,57	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.: S44003-820 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



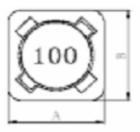




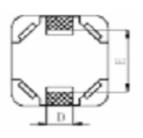


TECHNICAL INFORMATIONS

Dimensions (mm)







A $7,3 \pm 0,3$ **B** $7,3 \pm 0,3$

C 3,5 Max D 1,8 ± 0,2

E $5,0 \pm 0,2$

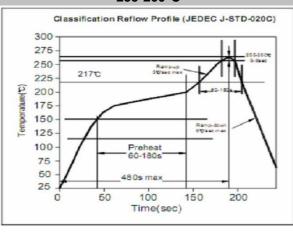
Ordering Information

	Serie and Range	
S44003-820		

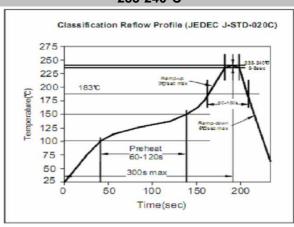
Tolerance	ROHS	Packing	
М	R	TR	

K = 10%	R = ROHS	BU = 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



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SMT SHIELD POWER INDUCTORS

Part No.: **\$44003-820**

Customer:

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