







# DISCRIPTION

# **FEATURES**

Low cost, high performance inductor. Super low resistance with high current rating.

#### **OPTIONS**

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

#### **APPLICATIONS**

Excellent as DC-DC Converter used in notebook computers, PDA, step up or step down converters.

#### PHYSICAL CHARACTERISTICS

- Inductance measured by LCR Meter HP 4284A
- DC Resistance measured by Milliohm meter HP4338B
- SRF measured by Network analyzer HP 4294/HP4291
- · SRF is for reference only
- Temperature rise = 40°C max at I rms
- △ \_/L0A=10% typical at I sat

# **ELECTRICAL SPECIFICATIONS**

Properties	Test conditions		Value	Unit	Tol.
Inductance		L	180	nH	see Site 2
Q factor		Q			min.
DC-resistance		DCR typ.		Ω	typ.
DC-resistance		DCR max.	0,003	Ω	max.
Self-Res. Freq.		SRF	800	MHz	min.
Test-Freq.			100	KHz	
Rated Current		Irms	14	Α	max.
Saturation Current		Isat	10	Α	max.

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 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.: S42001-R18 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



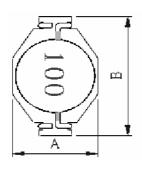






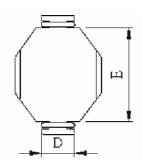
# **TECHNICAL INFORMATIONS**

### Dimensions ( mm )



A 6,10 Max.B 8,89 Max.

C 5,00 Max.D 2,03 ± 0,25



**E** 6,35 Min.

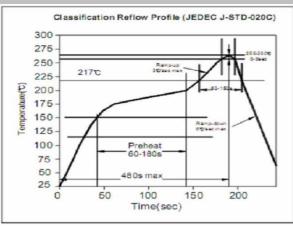
#### **Ordering Information**

Serie and Range				
S42001-R18				

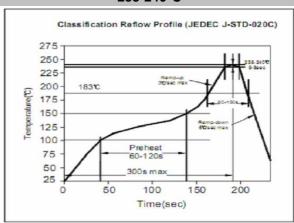
Tolerance	ROHS	Packing	
M	R	TR	

<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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# SMT UNSHIELDED POWER INDUCTORS

Part No.: **\$42001-R18** 

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