







## DISCRIPTION

#### **FEATURES**

Magnetically Shielded Structure
Low DC Resistance
Excellent Mechanical Strength
High Reliability and Excellent Solderability
Low and square Profile
High heat resistance

#### **OPTIONS**

Tape & Reel is Standard ( Qty: 2500 pcs)
Bulk Packing Available for smaller quantites
Tolerance: J=5%; K=10% is Standard,
Tighter Tolerances Available

#### **APPLICATIONS**

VCRs, Notebook, DC/DC Converters
Video Digital Cameras
Communication System
Automotive System Power supplier
LCD PDP Televisons
Hard Disk Drives, Topset, XDSL
Computer Peripheral Equipment

## PHYSICAL CHARACTERISTICS

Inductor Testing: HP4284A (Equivalent acceptable)
 DCR: QuadTech 1880 mΩ Q-HP4342A - SRF- HP4191A
 IDCMax current is decreased 10% against its initial value

Operating temperature : -40°C ~ +105°C
 Storage temperature : -40°C ~ +105°C

Solder methods: Vapor Phase, Infrared Reflow
 Resistance to soldering heat: 260°C for 10 seconds
 Solvent resistance: Conforms to MIL-STD-202E

## **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.	3,04	Ω	max.
Self-Res. Freq.		SRF		KHz	min.
Test-Freq.			1	KHz	
Rated Current		IDC	0,20	Α	max.
Saturation Current		ISAT		Α	max.

**MAGNETIC** 1. This electronic component is meant to be used in general electronic equipment. Before the incorporation SHIELDED SMT 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, **POWER INDUCTOR** 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.: S27003-181 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 19.06.2009

**FINISH** 

Vienna

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APPD:

Sheet

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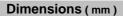


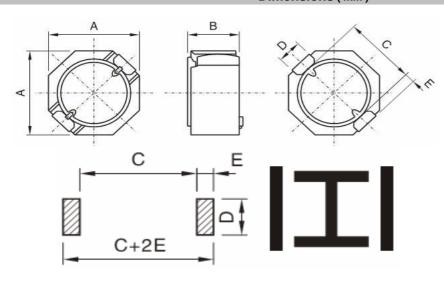






## TECHNICAL INFORMATIONS





 $5.0 \pm 0.3$ В 2,0 max C 4,2 1,6 Ε 0,6 C+2E 5,4

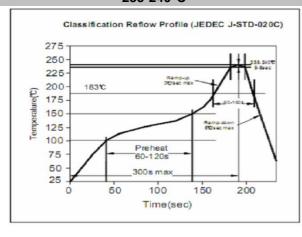
#### **Ordering Information**

Serie and Range				
S27003-181				

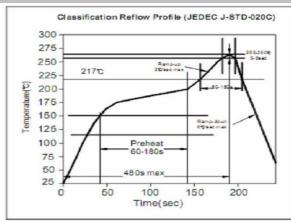
Tolerance ROHS		Packing	
M	R	TR	
<b>J</b> = 5%	<b>R</b> = ROHS	<b>BU</b> = Bulk Ware	
<b>K</b> = 10%	N = non ROHS	TR = Tape Reel	

<b>J</b> = 5%	R = ROHS	<b>BU =</b> Bulk Ware
<b>K</b> = 10%	N = non ROHS	TR = Tape Reel
M = 20%		
<b>N</b> = 30%		

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



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



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functions.

# **MAGNETIC** SHIELDED SMT **POWER INDUCTOR**

S27003-181 Part No.:

Customer:

DRW: Chang CHKD Young MATL: Chu Chi DATE 19.06.2009 APPD: **FINISH** Vienna Pong Sheet 2 from 2