







### 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	22	μH	see Site 2
Q factor		Q			min.
DC-resistance		DCR typ.		Ω	typ.
DC-resistance		DCR max.	0,208	Ω	max.
Self-Res. Freq.		SRF		KHz	min.
Test-Freq.			1	KHz	
Rated Current		IDC	0,86	Α	max.
Saturation Current		ISAT		Α	max.

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.

# MAGNETIC SHIELDED SMT POWER INDUCTOR

Part No.: **\$27004-220** 

Customer:

 DRW:
 Chang
 CHKD
 Young
 MATL:
 Chu Chi
 DATE
 19.06.2009

 APPD:
 Pong
 FINISH
 Vienna
 Sheet
 1 from 2



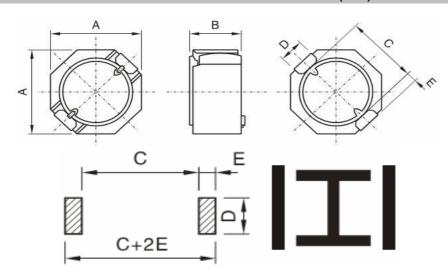






### **TECHNICAL INFORMATIONS**

#### Dimensions ( mm )



A 5,3 ± 0,3
 B 2,8 max
 C 4,2
 D 1,6
 E 0,6
 C+2E 5,4

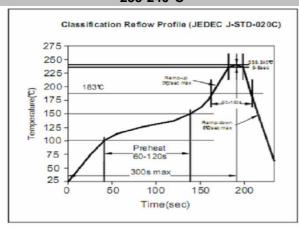
## Ordering Information

Serie and Range			
S27004-220			

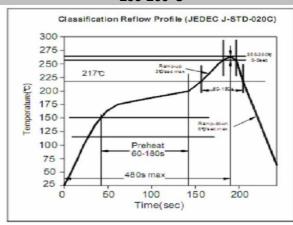
Tolerance	ROHS	Packing	
M	R	TR	
<b>J</b> = 5%	R = ROHS	BU = Bulk Ware	

J = 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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