



## DISCRIPTION

### FEATURES

Magnetic Shielded Surface Mount Inductor with High Current Rating

Low Resistance to Keep Power Loss Minimum.

### OPTIONS

Tape & Reel is Standard ( Qty:600 Pcs )  
Bulk Packing Available for smaller quantities  
Tolerance: M=20% ; Y=15% is Standard,  
Tighter Tolerances Available

### APPLICATIONS

Power Line DC-DC Converter  
Hard disk, Notebook  
Computers and other  
Electronic Equipment

## PHYSICAL CHARACTERISTICS

#### Materials :

- Core : Ferrite DR Core & RI Core
- Wire : Enamelled Copper Wire
- Base : LCP E4008
- Terminal : Tinned Copper Plate
- Adhesive: Epoxy Resin

#### General Specification :

- Storage Temperature : -40°C ~ +125°C
- Operation Temperature : -40°C ~ +105°C
- Rated Current: Base on Temperature & L/L0A=10% max
- Resistance to solder heat : 260°C , 10 sec.

## ELECTRICAL SPECIFICATIONS

Properties	Test conditions		Value	Unit	Tol.
Inductance		<b>L</b>	82	$\mu$ H	see Site 2
Q factor		<b>Q</b>	30		min.
DC-resistance		<b>DCR typ.</b>	---	m $\Omega$	typ.
DC-resistance		<b>DCR max.</b>	0,26	m $\Omega$	max.
Self-Res. Freq.		<b>SRF</b>	2,4	MHz	min.
Test-Freq.		<b>L / Q</b>	1 / 2,52	KHz / MHz	
Rated Current		<b>IDC</b>	1050	A	max.
Saturation Current		<b>I SAT</b>	---	A	max.

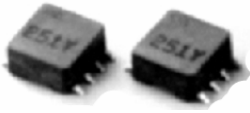
1. This electronic component is meant to be used in general electronic equipment. Before the incorporation of this component into any equipment with higher and more reliable requirements such as aviation, aerospace, submarine, nuclear control, transportation, transportation signal, disaster prevention, 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.

### SHIELDED SMD POWER INDUCTORS

Part No.: **S37002-820**

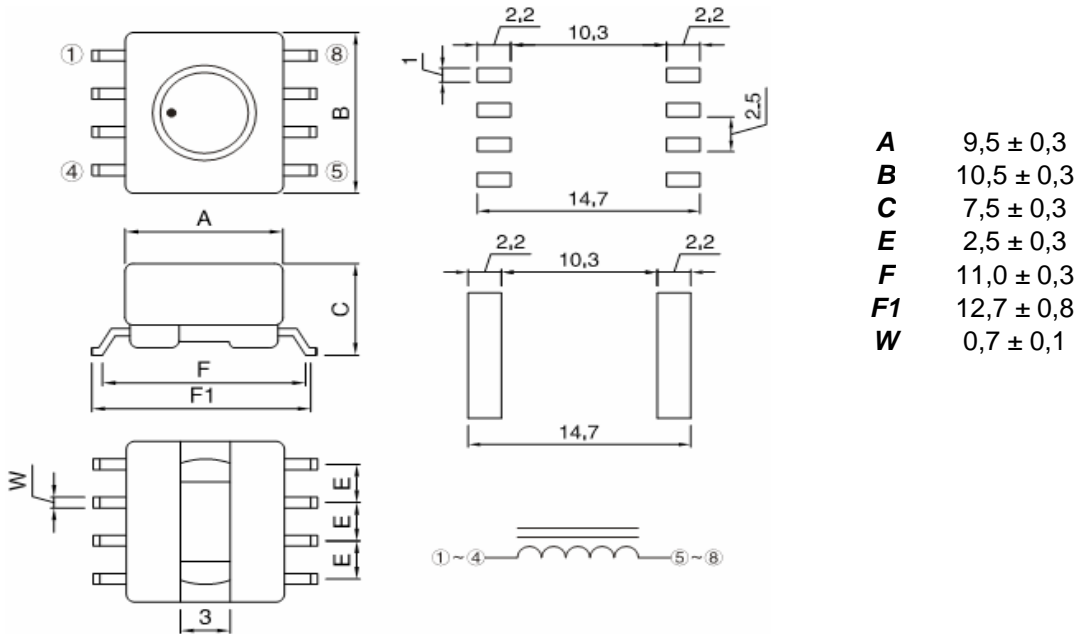
Customer:

DRW:	Chang	CHKD	Young	MATL:	Chu Chi	DATE	23.06.2009
APPD:	Pong			FINISH	Vienna	Sheet	1 from 2



**TECHNICAL INFORMATIONS**

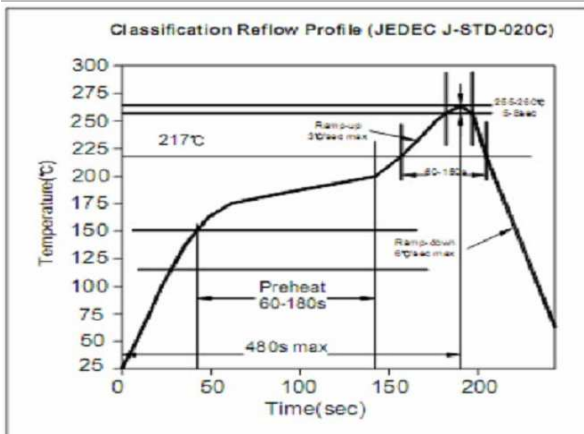
**Dimensions ( mm )**



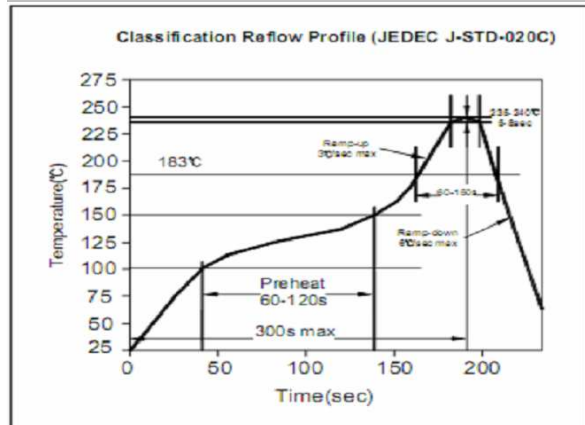
**Ordering Information**

<b>Serie and Range</b>	<b>Tolerance</b>	<b>ROHS</b>	<b>Packing</b>
<b>S37002-820</b>	<b>M</b>	<b>R</b>	<b>TR</b>
<b>Y = 15%</b>	<b>R = ROHS</b>	<b>BU = Bulk Ware</b>	
<b>M = 20%</b>	<b>N = non ROHS</b>	<b>TR = Tape Reel</b>	

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



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



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