EDCON COMPONENTS
A MEMBER OF EDCON-GROUP

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**	10	**µH**	**see Site 2**
Q factor		**Q**	---		**min.**
DC-resistance		**DCR typ.**	---	**Ω**	**typ.**
DC-resistance		**DCR max.**	0,22	**Ω**	**max.**
Self-Res. Freq.		**SRF**	---	**KHz**	**min.**
Test-Freq.			100	**KHz**	
Rated Current		**IDC**	0,80	**A**	**max.**
Saturation Current		**I SAT**	---	**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.

MAGNETIC SHIELDED SMT POWER INDUCTOR

Part No.: **S27002-100**

Customer:

DRW:	Chang	CHKD	Young	MATL:	Chu Chi	DATE	19.06.2009
APPD:	Pong			FINISH	Vienna	Sheet	1 from 2

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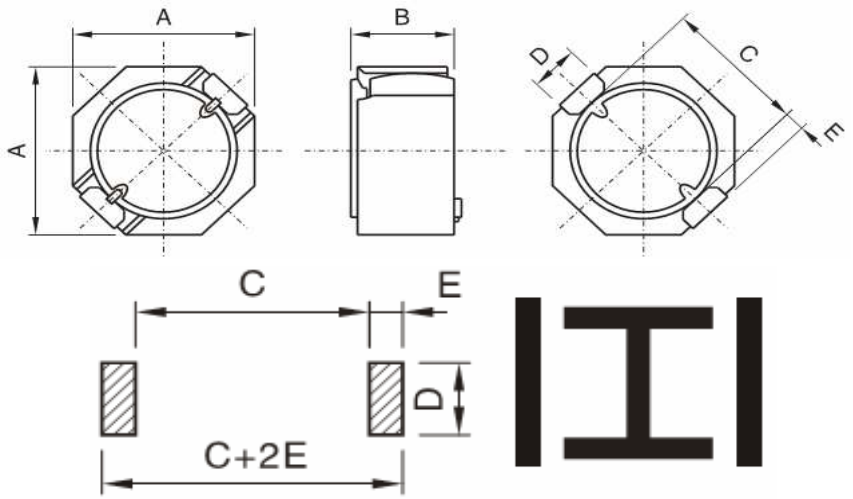
TECHNICAL INFORMATIONS

Dimensions (mm)

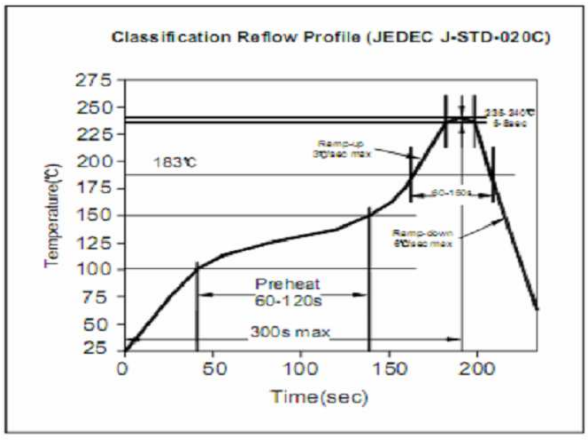


A	5,2 max
B	3,0 max
C	4,2 ± 0,5
D	1,4 ± 0,5
E	0,6 ± 0,3
C+2E	5,4

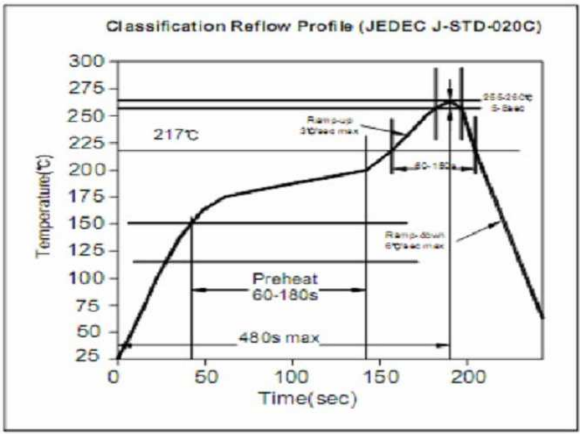
Ordering Information

Serie and Range	Tolerance	ROHS	Packing
S27002-100	**M**	**R**	**TR**
	J = 5%	**R =** ROHS	**BU =** Bulk Ware
	K = 10%	**N =** non ROHS	**TR =** Tape Reel
	M = 20%		
	N = 30%		

Soldering Profile for Lead Free Soldering 235-240°C



Soldering Profile for Lead Free Soldering 255-260°C



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