



## DISCRIPTION

### FEATURES

Low resistance to keep power loss minimum.

### OPTIONS

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

### APPLICATIONS

Excellent for power line DC-DC conversion applications used in hard disk, notebook computers and other electronic equipment

## PHYSICAL CHARACTERISTICS

- Inductance is measured by LCR-meter 4284A (HP) or equivalent.
- DC Resistance is measured by HP4338B Milliohms Meter or equivalent.
- Rated current is measured by LCR-meter 3260B (WK) & DC Bias 3265B(WK).
- Maximum allowable DC current is that which causes a 10% inductance reduction from the initial value, or coil temperature to rise by 40°C, whichever is smaller. (Reference ambient temperature 20°C)
- Operating temperature -55°C ~ +125°C
- All test data is referenced to 25°C ambient

## ELECTRICAL SPECIFICATIONS

Properties	Test conditions		Value	Unit	Tol.
Inductance		<b>L</b>	680	$\mu$ H	see Site 2
Q factor		<b>Q</b>	---		min.
DC-resistance		<b>DCR typ.</b>	---	$\Omega$	typ.
DC-resistance		<b>DCR max.</b>	4,30	$\Omega$	max.
Self-Res. Freq.		<b>SRF</b>	---	MHz	min.
Test-Freq.			100	KHz	
Rated Current		<b>IDC</b>	0,18	A	max.
Saturation Current		<b>Isat</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.

### SMT UNSHIELDED POWER INDUCTORS

Part No.: **S46004-681**

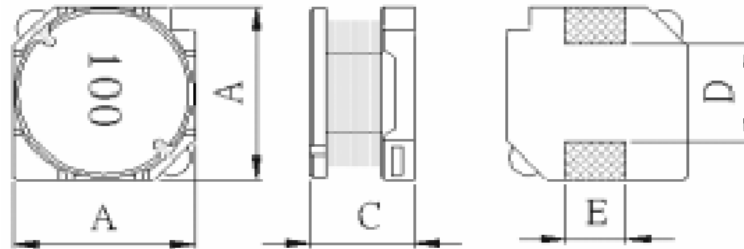
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**TECHNICAL INFORMATIONS**

**Dimensions ( mm )**

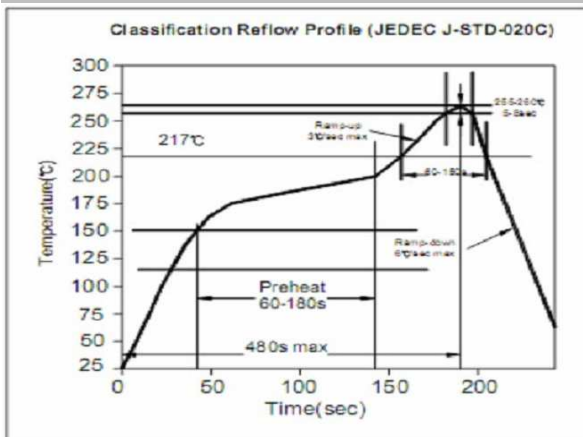


<b>A</b>	7,0 ± 0,3	<b>D</b>	4,0 ± 0,2
<b>C</b>	3,0 ± 0,3	<b>E</b>	2,0 ± 0,2

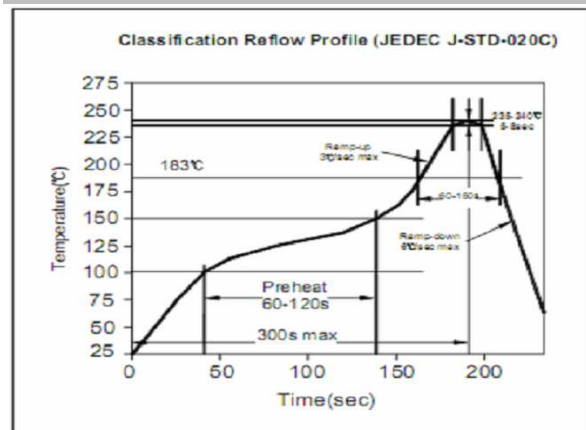
**Ordering Information**

Serie and Range	Tolerance	ROHS	Packing
S46004-681	M	R	TR
	K = 10%	R = ROHS	BU = Bulk Ware
	M = 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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