



## DISCRIPTION

### FEATURES

Low profile very effective in space-conscious applications.  
 Low resistance and high energy storage.  
 Flat top for relisble surface mounting.  
 Robust temperature deflection pervents damage during solder reflow.

### OPTIONS

Tape & Reel is Standard  
 Bulk Packing Available for smaller quantites  
 Tolerance: M=20% is Standard

### APPLICATIONS

DC-DC Converter  
 Notebook  
 PDA  
 Mobile Hand-Phone  
 Step-down Converters  
 Flash Memory

### PHYSICAL CHARACTERISTICS

- Inductance tested at 100 kHz, 0,1 Vrms, 0 Adc at 4284A (HP) LCR meter or equivalent.
- Isat : DC current at which the inductance drops 10% (typ) from its value without current.
- Irms : Average current for 15°C temperature rise from 25°C ambient.
- Operating temperature range -40°C ~ +85°C.
- Electrical specifications at 25°C.

### ELECTRICAL SPECIFICATIONS

Properties	Test conditions		Value	Unit	Tol.
Inductance		<b>L</b>	1,0	$\mu$ H	see Site 2
Q factor		<b>Q</b>	---		min.
DC-resistance		<b>DCR typ.</b>	---	$\Omega$	typ.
DC-resistance		<b>DCR max.</b>	0,009	$\Omega$	max.
Self-Res. Freq.		<b>SRF</b>	80	Mhz	min.
Test-Freq.			---	Mhz	
Rated Current		<b>Irms</b>	8,6	mA	max.
Saturation Current		<b>Isat</b>	20	mA	typ.

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 Inductor

Part No.: **S16007-1R0**

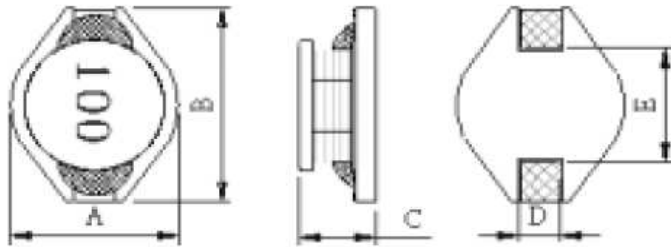
Customer:

DRW:	Chang	CHKD	Young	MATL:	Chu Chi	DATE	11.06.2009
APPD:	Pong			FINISH	Vienna	Sheet	1 from 2



**TECHNICAL INFORMATION**

**Dimensions ( mm )**



- A** 15,24 max
- B** 18,54 max
- C** 7,51 max
- D** 2,54 ± 0,20
- E** 12,7 ± 0,20

**Ordering Information**

Serie and Range	Tolerance	ROHS	Packing
<b>S16007-1R0</b>	<b>M</b>	<b>R</b>	<b>TR</b>
	<b>M = 20%</b>	<b>R = ROHS</b> <b>N = non ROHS</b>	<b>BU = Bulk Ware</b> <b>TR = Tape Reel</b>

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



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



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 Inductor**

Part No.: **S16007-1R0**

Customer:

DRW:	Chang	CHKD	Young	MATL:	Chu Chi	DATE	11.06.2009
APPD:	Pong			FINISH	Vienna	Sheet	2 from 2