



DISCRIPTION

FEATURES

OPTIONS

Magnetic Shielded surface mount inductor with high current rating. Low resistance to keep power loss minimum. Tape & Reel is Standard Tolerance: M=20% is Standard, Tighter Tolerances Available

APPLICATIONS

Excellent for power line DC-DC conversions used in hard disk, notebook computer and other electronic equipment.

PHYSICAL CHARACTERISTICS

- Inductance is measured by LCR-meter 4284A / 4286A (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 25% 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		L	10	μH	see Site 2
Q factor		Q			min.
DC-resistance		DCR typ.		Ω	typ.
DC-resistance		DCR max.	0,049	Ω	max.
Self-Res. Freq.		SRF		MHz	min.
Test-Freq.			1	KHz	
Rated Current		IDC	1,84	A	max.
Saturation Current		Isat		Α	max.

 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 						POWER INDUCTOR		
-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					Part No.:	S47002-100		
functions.					Customer:			
DRW:	Chang	CHKD	Young	MATL:	Chu Chi	DATE	29.06.2009	
APPD:	Pong			FINISH	Vienna	Sheet	1 from 2	

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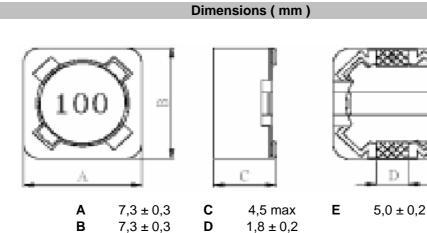
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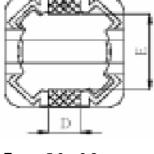
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TECHNICAL INFORMATIONS

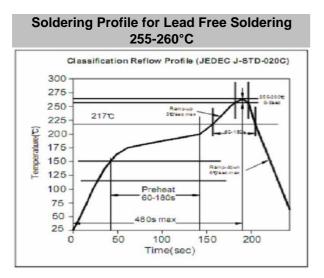




Ordering Information

Serie and Range	
S47002-100	

Tolerance	ROHS	Packing		
М	R	TR		
_				
K = 10%	R = ROHS	BU = Bulk Ware		
M = 20%	N = non ROHS	TR = Tape Reel		



235-240°C Classification Reflow Profile (JEDEC J-STD-020C) 275 250 225 Ramp-30/340 200 18310 Temperature(°C) 175 150 Ramp-125 100 Preheat 60-120s 75 50 300s max 25

100

Time(sec)

150

200

50

o

Soldering Profile for Lead Free Soldering

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-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					Part No.:	S47002-100	
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