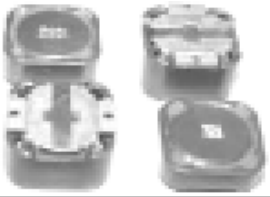

Powerline

EDCON COMPONENTS
A MEMBER OF EDCON-GROUP

Technical Informations

FEATURES

Magnetic Shielded surface mount inductor
with high current rating.
Low resistance to keep power loss minimum.

OPTIONS

Tape & Reel (Standard)
Tolerance: M=20% (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.

Ambient Temperature . -40°C to + 85°C
- Operating Temperature . -40°C to + 125°C
- Storage Temperature . -20°C to + 60°C 75%RH max

ELECTRICAL SPECIFICATIONS

Inductance	Test-Freq.	DCR (Ω)		Saturation Current (A)				Temperature	
		at 20°C		at 25°C		at 125°C		Rise Current (A)	
(µH)	**KHz**	**Max**	**Typ.**	**Typ.**	**Max**	**Typ.**	**Max**	**Typ.**	**Max**
180	1	0,191	1,153	1,66	2,08	1,22	1,53	1,86	2,13

1. Saturation current: The DC current at which the inductance decreased to 90% of ist initial value.
2. Temperature rise current: The DC current at which the temperature rise ΔT=40°C. (Ta=20°C)

SMT SHIELDED POWER INDUCTOR High Current

Part No.: **S47007-181**

Customer:

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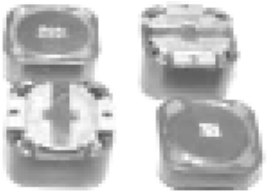

Powerline

EDCON COMPONENTS
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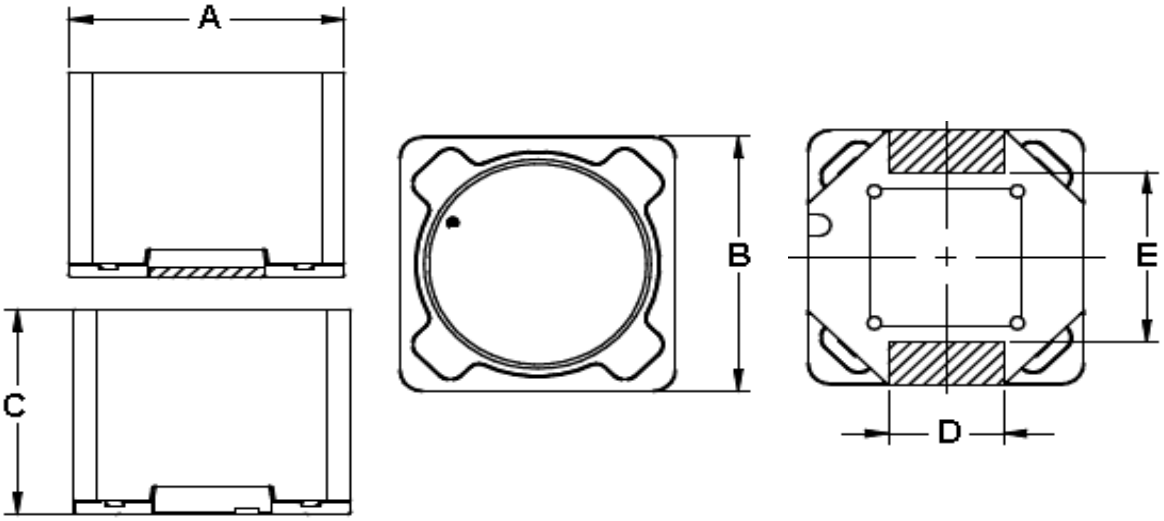
TECHNICAL Dimensions (mm)



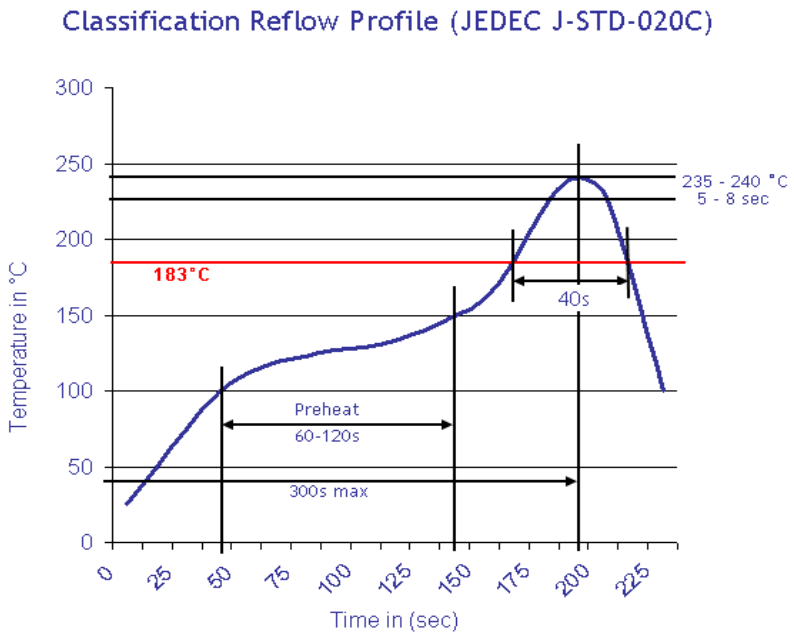
A=	12,0 ± 0,3
B=	12,0 ± 0,3
C=	10,0 max
D=	5,4 ± 0,2
E=	6,8 ± 0,2

Ordering Information

Serie and Range	Tolerance	ROHS	Packing
S47007-181	**M**	**R**	**TR**

K = 10%	**R** = ROHS	**BU** = Bulk Ware
M = 20%	**N** = non ROHS	**TR** = Tape Reel

Soldering Profile for Lead Free Soldering 235-240°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.

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Part No.: **S47007-181**

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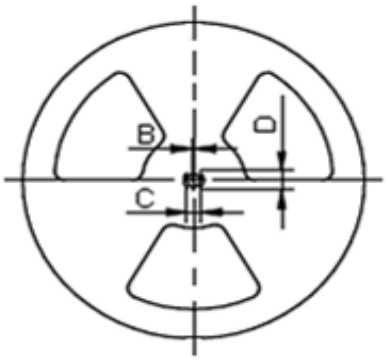

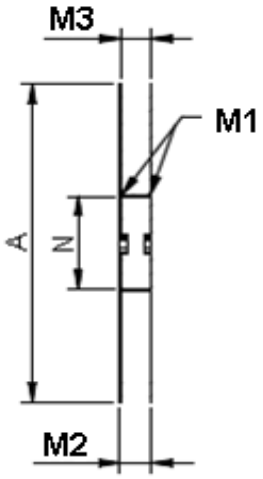

	Dimension (mm)								
	A	B	C	D	N	M1	M2	M3	M3
Tolerance	± 2.0	min.	min.	min.	± 2.0	.+2.0	max.	min.	max.
Tape width 24mm	330	1,5	12,8	20,2	60,0	24,4	30,4	23,9	27,4

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