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REACH & RoHS
COMPLIANT

H

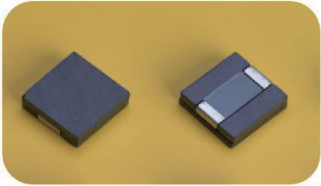
1 Features

- ☆ High saturation characteristic core for large saturation current and low loss
- ☆ High precision DCR
- ☆ Closed magnetic circuit design reduces leakage flux
- ☆ Halogen free, RoHS compliant

G

Application

- ☆ Data center, Server, desktop computer, notebook
- ☆ Graphics, memory
- ☆ Industrial equipment, telecom base station



F

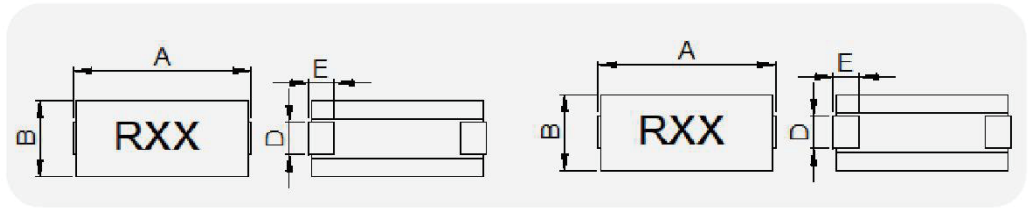
Part number	Initial Inductance (nH)	Tolerance (±%)	DCR (mΩ)	1-Saturation Current@ 25°C (Amps)(typ)	2-Saturation Current@ 100°C (Amps)(typ)	Heating Current (Amps)(typ)
WHPBU-150705N-R10L0	100	15	0.47 ± 7%	105	80	53
WHPBU-150705N-R12L0	120	15	0.47 ± 7%	87	75	53
WHPBU-150705N-R15L0	150	15	0.47 ± 7%	72	60	53

E

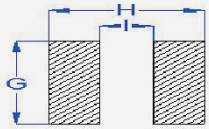
Notes:

Initial Inductance : Testing at 100KHz/1.0V
Saturation Current : DC current that will cause initial Inductance to drop approximately 20%.
Heating Current : DC current that will cause an approximate ΔT of 40 °C.
Note : All test data is referenced to 25 °C ambient.

2 Dimensions (mm)& recommend layout



Recommended Pad Layout



C

P/N	A	B	C	D	E	G	I	H
WHPBU-150705 Series	14.7 ± 0.3	6.7 ± 0.3	5.0 Max	2.8 Ref	2.0 Ref	4.5	10	15

B

A

VOOHU 苏州沃虎电子科技有限公司
Su Zhou Voohu Electronic Tech.Co.Ltd

TEL: +86 400 1048 018

WEB: WWW.WOHU-TEK.COM

TITLE:
Power Bead Inductor

PART NO.:
WHPBU-150705N Series

REMARK: Surface Mount Package
Normal Applications

SIZE
A4

SACLE
1:1

SHEET
1/4

UNITS
MM[INCH]

REV
A0



GENERAL TOLERANCES
UNLESS SPECIFIED

x±0.35
.x±0.30

.xx±0.25
.xxx±0.10

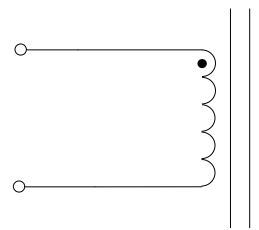
APPROVED BY:
Geoffrey.Song

CHECKED BY:
Elvis.Song

DESIGND BY:
Sunny.Xu

REACH & RoHS
COMPLIANT

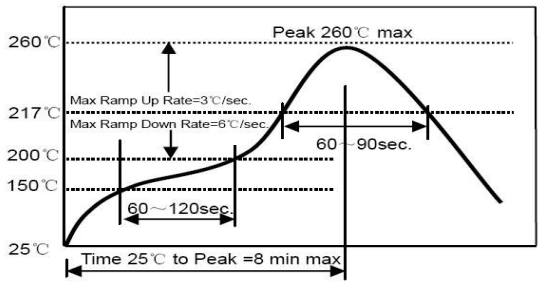
3 Schematics



● — START POINT

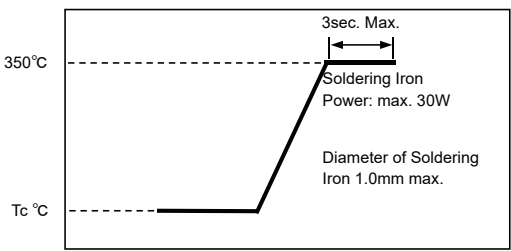
4 Recommended Solder Profile

a. Reflow Profile





Preheat condition: 150 ~200°C/60~120sec.
Allowed time above 217°C: 60~90sec.
Max temp: 260°C
Max time at max temp: 10 sec.
Solder paste: Sn/3.0Ag/0.5Cu
Allowed Reflow time: 2x max




b. Iron Soldering Profile



Iron soldering power: Max. 30W
Pre-heating: 150°C/60sec.
Soldering Tip temperature: 350°C Max.
Soldering time: 3sec. Max.
Solder paste: Sn/3.0Ag/0.5Cu
Max.1 times for iron soldering

<div> 苏州沃虎电子科技有限公司 Su Zhou Voohu Electronic Tech.Co.Ltd</div>		TITLE: Power Bead Inductor	SIZE A4	UNITS MM[INCH]	GENERAL TOLERANCES UNLESS SPECIFIED		APPROVED BY: Geoffrey.Song
		PART NO.: WHPBU-150705N Series	SACLE 1:1	REV A0	x±0.35	x°±3.0°	CHECKED BY: Elvis.Song
					.x±0.30	.x°±2.0°	
TEL: +86 400 1048 018	WEB: WWW.WOHU-TEK.COM	REMARK: Surface Mount Package Normal Applications	SHEET 2/4		.xx±0.25	.xx°±1.5°	DESIGND BY: Sunny.Xu
					.xxx±0.10	.xxx°±1.0°	

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REACH & RoHS COMPLIANT		5 Reliability test													

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H	REACH & RoHS COMPLIANT		<div><div></div><div>REMINDERS</div></div> <div><div>☆ The best assembly quality guarantee period of product: 12 months (From shipment date) Storage condition : seal in packaging, (temperature: 5 to 40°C, humidity: 10 to 75% RH or less).</div><div>☆ If taking out for use, the remaining products should be sealed in plastic bags and preserved in accordance with the above conditions, to avoid oxidation of electrodes and affect soldering status.</div><div>☆ Do not use or store in locations where there are conditions such as gas corrosion (salt, acid, alkali, etc.).</div><div>☆ Before soldering, be sure to preheat components. The preheating temperature should be set so that the temperature difference between the solder temperature and chip temperature does not exceed 150°C.</div><div>☆ Always handle products with care to avoid damage.</div><div>☆ Do not touch electrodes with bare hands directly, as oil secretions may inhibit soldering. Always ensure optimum conditions for soldering.</div><div>☆ Soldering corrections after mounting should be within the range of the conditions determined in the specifications.If overheated, a short circuit, performance deterioration, or lifespan shortening may occur.</div><div>☆ Use a wrist band to discharge static electricity in your body through the grounding wire.</div><div>☆ Do not expose the products to magnets or magnetic fields.</div><div>☆ Do not use for a purpose outside of the contents regulated in the delivery specifications.</div></div>						H
G									G
F									F
E									E
D									D
C									C
B									B
A	<div><div></div><div>苏州沃虎电子科技有限公司 Su Zhou Voohu Electronic Tech.Co.Ltd</div></div>		TITLE: Power Bead Inductor		SIZE A4	UNITS MM[INCH]	GENERAL TOLERANCES UNLESS SPECIFIED		APPROVED BY: Geoffrey.Song
			PART NO.: WHPBU-150705N Series		SACLE 1:1	REV A0	<div><div>.xx±0.35</div><div>.x±0.30</div></div>	<div><div>x°±3.0°</div><div>.x°±2.0°</div></div>	CHECKED BY: Elvis.Song
	TEL: +86 400 1048 018	WEB: WWW.WOHU-TEK.COM	REMARK: Surface Mount Package Normal Applications		SHEET 4/4		<div><div>.xx±0.25</div><div>.xxx±0.10</div></div>	<div><div>.xx°±1.5°</div><div>.xxx°±1.0°</div></div>	DESIGND BY: Sunny.Xu
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