

Inductors for power circuits **Wound ferrite VLBU** series









VLBU6565100 type













FEATURES

- This is a power supply circuit for SMD inductors using high Bs ferrite materials.
- O Large current and lower DCR were achieved by the connecting wire-less structure.
- O This inductor reduces mounting area.
- Operating temperature range: -40 to +125°C (including self-temperature rise)

APPLICATION

O Servers, BTS, VRM, others

PART NUMBER CONSTRUCTION



CHARACTERISTICS SPECIFICATION TABLE

L		Measuring fre- quency	DC resistar	nce	Rated curre	nt*	Part No.
					Isat	Itemp	
(μH)	Tolerance	(kHz)	(m Ω)typ.	Tolerance	(A)typ.	(A)typ.	
0.10	±15%	100	0.17	±10%	80.0	70.0	VLBU6565100T-R10L
0.15	±15%	100	0.17	±10%	52.0	70.0	VLBU6565100T-R15L
0.20	±15%	100	0.17	±10%	37.0	70.0	VLBU6565100T-R20L
0.22	±15%	100	0.17	±10%	33.0	70.0	VLBU6565100T-R22L

^{*} Rated current: smaller value of either Isat or Itemp.

Isat: When based on the inductance change rate (20% below the nominal value, under an environment of 20°C) Itemp: When based on the temperature increase (temperature increase of 40°C by self heating)

Measurement equipment

Measurement item	Product No.	Manufacturer
L	IM3536	HIOKI
DC resistance	RM3545	HIOKI
Rated current Isat	3260+3265B	Wayne Kerr Electronics

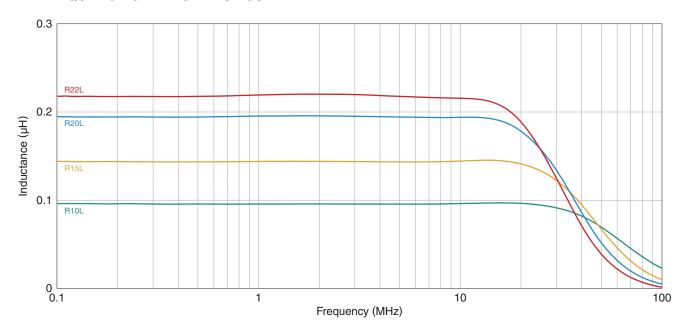
^{*} Equivalent measurement equipment may be used.





VLBU6565100 type

L FREQUENCY CHARACTERISTICS

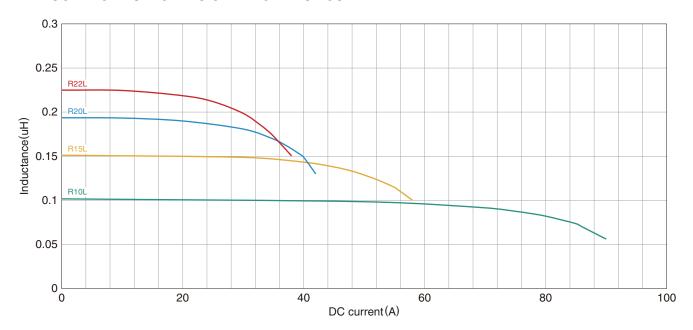


Measurement equipment

Product No.	Manufacturer
4294A	Keysight Technologies

^{*} Equivalent measurement equipment may be used.

■INDUCTANCE VS. DC BIAS CHARACTERISTICS



Measurement equipment

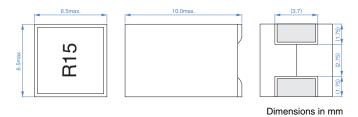
Product No.	Manufacturer
3260B+3265B	Wayne Kerr Electronics

^{*} Equivalent measurement equipment may be used.



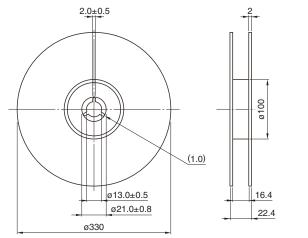
VLBU6565100 type

■SHAPE & DIMENSIONS



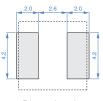
■PACKAGING STYLE

□REEL DIMENSIONS



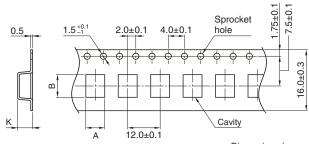
Dimensions in mm

■ RECOMMENDED LAND PATTERN



Dimensions in mm

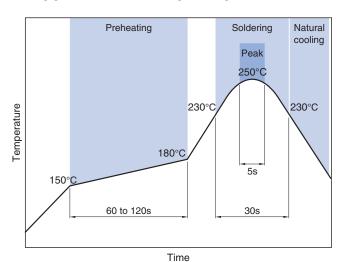
TAPE DIMENSIONS



Dimensions	in	mm
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Туре	Α	В	K
VLBU6565100	6.6±0.1	6.6±0.1	10.1±0.1

■ RECOMMENDED REFLOW PROFILE



□PACKAGE QUANTITY

Package quantity	400 pcs/reel

■TEMPERATURE RANGE, INDIVIDUAL WEIGHT

Operating temperature range*	Storage temperature range**	Individual weight
-40 to +125 °C	−40 to +125°C	1.76 g

^{*} Operating temperature range includes self-temperature rise.

^{**} The storage temperature range is for after the assembly.



REMINDERS FOR USING THESE PRODUCTS

Before using these products, be sure to request the delivery specifications.

SAFETY REMINDERS

Please pay sufficient attention to the warnings for safe designing when using this products.

⚠ REMINDERS	
The storage period is within 6 months. Be sure to follow the storage conditions (temperature: 5 to 30°C, humidity: 10 to 75% less). If the storage period elapses, the soldering of the terminal electrodes may deteriorate.	RH or
Do not use or store in locations where there are conditions such as gas corrosion (salt, acid, alkali, etc.).	
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 not exceed 150°C.	erature
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.	
When embedding a printed circuit board where a chip is mounted to a set, be sure that residual stress is not given to the chip the overall distortion of the printed circuit board and partial distortion such as at screw tightening portions.	due to
Self heating (temperature increase) occurs when the power is turned ON, so the tolerance should be sufficient for the set tidesign.	hermal
Carefully lay out the coil for the circuit board design of the non-magnetic shield type. A malfunction may occur due to magnetic interference.	
Use a wrist band to discharge static electricity in your body through the grounding wire.	
Do not expose the products to magnets or magnetic fields.	
Do not use for a purpose outside of the contents regulated in the delivery specifications.	
The products listed on this catalog are intended for use in general electronic equipment (AV equipment, telecommunications ment, home appliances, amusement equipment, computer equipment, personal equipment, office equipment, measurement ment, industrial robots) under a normal operation and use condition. The products are not designed or warranted to meet the requirements of the applications listed below, whose performance and/o ity require a more stringent level of safety or reliability, or whose failure, malfunction or trouble could cause serious damage to sperson or property.	equip- or qual-

- (1) Aerospace/aviation equipment
- (2) Transportation equipment (cars, electric trains, ships, etc.)
- (3) Medical equipment
- (4) Power-generation control equipment

set forth in the each catalog, please contact us.

- (5) Atomic energy-related equipment
- (6) Seabed equipment
- (7) Transportation control equipment

- (8) Public information-processing equipment
- (9) Military equipment
- (10) Electric heating apparatus, burning equipment
- (11) Disaster prevention/crime prevention equipment
- (12) Safety equipment
- (13) Other applications that are not considered general-purpose applications

When designing your equipment even for general-purpose applications, you are kindly requested to take into consideration securing protection circuit/device or providing backup circuits in your equipment.

If you intend to use the products in the applications listed below or if you have special requirements exceeding the range or conditions

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