

SCOPE :

This specification applies to the current type Radial Leaded Inductor
for VLU-1216-SERIES

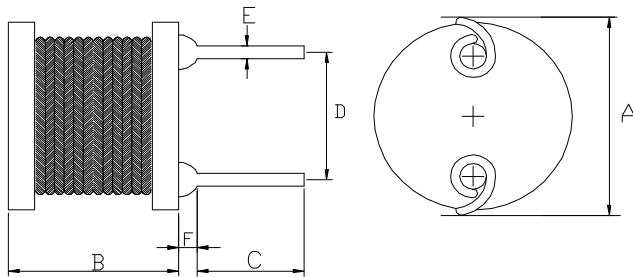
PRODUCT IDENTIFICATION

VLU - 1216 - 150 M

① ② ③ ④

- ① Product Code
- ② Dimensions Code
- ③ Inductance Code
- ④ Tolerance Code

(1) SHAPES AND DIMENSIONS



A: 14.0 Max.	mm
B: 16.5 Max.	mm
C: 15.0±2.0	mm
D: 7.5±0.5	mm
E: φ0.8±0.1	mm
F: 2.5 Max.	mm

(2) ELECTRICAL SPECIFICATIONS

SEE TABLE 1

TEST INSTRUMENTS

- L : HP 4284A PRECISION LCR METER (or equivalent)
- RDC : CHROMA MODEL 16502 MILLIOHMMETER (or equivalent)

(3) CHARACTERISTICS

- (3)-1 Ambient temperature +60°C Max.
- (3)-2 Operate temperature range -40°C ~ +125°C
(Including self temp. rise)
- (3)-3 Storage temperature range -40°C ~ +125°C

TABLE 1

RI HENGQANG PT/NO.	Inductance L(μ H)	Percent Tolerance	Test Frequency	Resistance RDC(Ω)Max.	Rated DC Current	
					IDC1(A)	IDC2(A)
V LU-1216-100□	10	K,M	100kHz/0.25V	19m	10.0	6.80
V LU-1216-120□	12	K,M	100kHz/0.25V	23m	8.8	6.40
V LU-1216-150□	15	M	100kHz/0.25V	27m	8.5	5.90
V LU-1216-220□	22	M	100kHz/0.25V	29m	7.0	5.40
V LU-1216-101□	100	K,M	100kHz/0.25V	0.15	2.4	3.20
V LU-1216-221□	220	K,M	100kHz/0.25V	0.31	1.60	2.15
V LU-1216-271□	270	K,M	100kHz/0.25V	0.40	1.45	2.00
V LU-1216-331□	330	K,M	100kHz/0.25V	0.46	1.30	1.75
V LU-1216-391□	390	K,M	100kHz/0.25V	0.58	1.15	1.70
V LU-1216-471□	470	K,M	100kHz/0.25V	0.70	1.00	1.50
V LU-1216-561□	560	K,M	100kHz/0.25V	0.75	0.95	1.35
V LU-1216-681□	680	K,M	100kHz/0.25V	0.80	0.90	1.30
V LU-1216-821□	820	K,M	100kHz/0.25V	0.85	0.80	1.10
V LU-1216-102□	1000	K,M	100kHz/0.25V	0.90	0.75	1.00
V LU-1216-302□	3000	K,M	10kHz/0.25V	2.79	0.53	0.60
V LU-1216-332□	3300	K,M	10kHz/0.25V	2.89	0.52	0.55
V LU-1216-402□	4000	K,M	10kHz/0.25V	3.73	0.49	0.50

※ □ Specify the inductance tolerance, K(\pm 10%), M(\pm 20%)

※ IDC1 : Based on inductance change (Δ L/L₀ : drop 10% Max) @ ambient temp. 25°C

IDC2 : Based on temperature rise (Δ T : 40°C TYP.)

Rated DC Current : The less value which is IDC1 or IDC2.

(4) RELIABILITY TEST METHOD MECHANICAL

NO.	ITEMS	SPECIFICATIONS	CONDITIONS
1	Solderability test	More than 90% of the terminal electrode should be covered with solder.	Dipping: 245 ± 5 °C, 3 ± 1 seconds
2	lead tensile strength test	1.0 Kg MIN.	The lead of product is pulled with a load of 1.0kg minimum until lead breakdown. The tensile force shall be recorded.
3	Vibration test	$\Delta L/L \leq \pm 7\%$ Visual:OK	The product is fixed into the vibration with amplitude of 1.52m/m at a frequency of 10~55Hz sweeping for 1min. The vibration is done at X,Y, Z direction respectively for 2 hours, totally 6 hours.
4	Soldering heat resistance test	Visual:OK Circuit:OK	The leads of product are dipped into a solder pot of 260±5°C for a duration of 10±1sec. Nothing particular on visual and open circuitry as a result of ore testing.

ENVIRONMENTAL

NO.	ITEMS	SPECIFICATIONS	CONDITIONS
1	Humidity endurance test	$\Delta L/L \leq \pm 5\%$	The product is placed in a chamber of 40±2°C, 90~95%RH for 96 hours. Measurement is done after the recovery of 4~24 hours.
2	High temp endurance test	$\Delta L/L \leq \pm 5\%$	The product is placed in a chamber of 80±2°C, for 72 hours. Measurement is done after recovery of 4~24 hours.
3	Low temp test	$\Delta L/L \leq \pm 5\%$	The product is placed in a chamber of -40±2°C, for 96 hours. Measurement is done after recovery of 4~24 hours.
4	Thermal shock test	$\Delta L/L \leq \pm 5\%$	The specimens are placed in a chamber and the temp is then lowered to -20±2°C for one hour. The temp will raised to +80±2°C for one hour. This constitutes one cycle. Ten cycles of such testing shall be completed. Measurement is made after recovery for 4~24 hours from the completion of testing.

(5) PACKAGE SPECIFICATION (mm)

