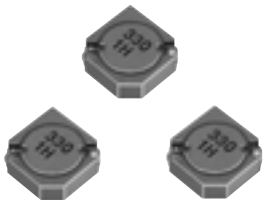
Power Inductors / Wire Wound type **Discontinued**

Series: **V**
Type: **ELLCTV**



■ Features
- Magnetic shielded structure
- Low DC resistance and large current capability
- Available on tape and reel for automatic insertion
- RoHS compliant

■ Recommended Applications
- DC-DC converter circuitry for computer peripherals and amusement equipment.
- Chopper circuit decoupling chokes for DC-DC converter circuitry.

■ Standard Packing Quantity
- 500 pcs./Reel

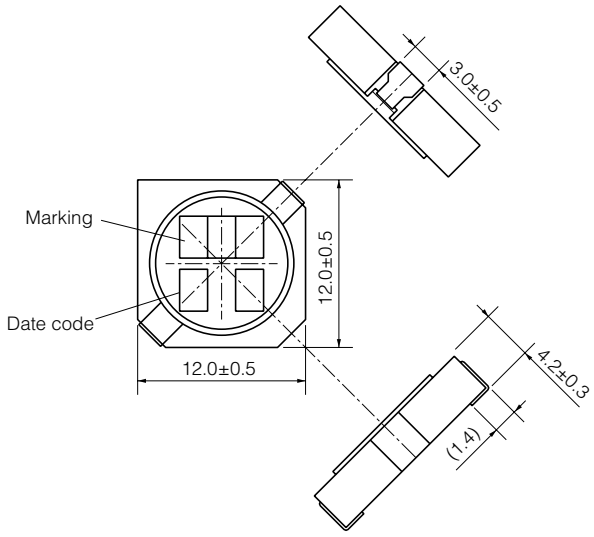
■ Soldering Conditions and Safety Precautions
Please see Data Files

■ Explanation of Part Numbers

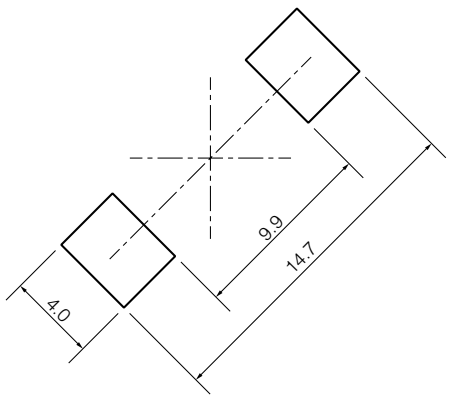
1	2	3	4	5	6	7	8	9	10	11
E	L	L	C	T	V	2	2	0	M	
Product Code			Outer size	Height	Structure	Inductance			Tolerance	Design No.

ELL	Choke Coil (Magnetic shielded type)
T	4.5 max.
V	Series
4R7 → 4.7 µH 101 → 100 µH	
M → ±20 % N → ±30 %	

■ Dimensions in mm (not to scale)



■ Recommended Land Pattern in mm (not to scale)



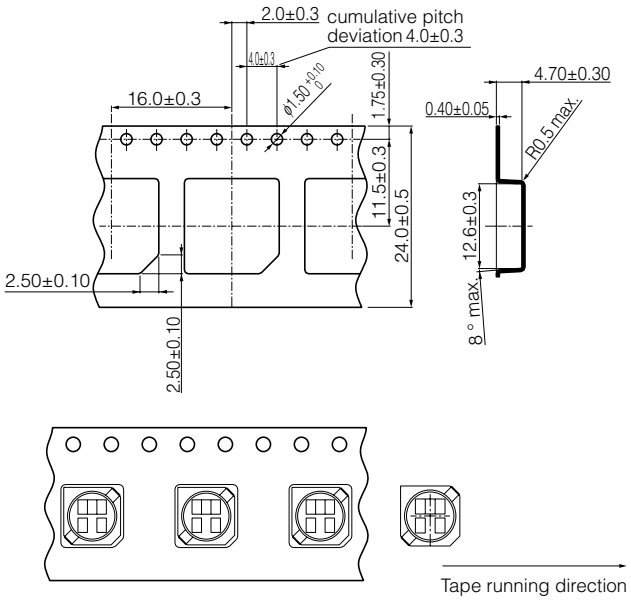
■ Standard Parts

Discontinued

Part No.	Inductance (100 kHz)		RDC (at 20 °C)		✻ Rated Current (mA) max.	Marking
	(μH)	Tolerance	(mΩ)	Tolerance		
ELLCTV1R2N	1.2	±30 %	4.6	±20 %	6500	1R2
ELLCTV2R0N	2.0		5.6		6300	2R0
ELLCTV2R7N	2.7		7.0		5700	2R7
ELLCTV3R9N	3.9		8.5		5600	3R9
ELLCTV4R7N	4.7		9.9		5200	4R7
ELLCTV5R6N	5.6		11		4900	5R6
ELLCTV6R8N	6.8		14		4500	6R8
ELLCTV8R2N	8.2		15		4400	8R2
ELLCTV100M	10.0	±20 %	17		3900	100
ELLCTV120M	12.0		22		3700	120
ELLCTV150M	15.0		25		3100	150
ELLCTV180M	18.0		30		3000	180
ELLCTV220M	22.0		37		2700	220
ELLCTV270M	27.0		43		2300	270
ELLCTV330M	33.0		50		2200	330
ELLCTV390M	39.0		61		2100	390
ELLCTV470M	47.0		69		1900	470
ELLCTV560M	56.0		87		1600	560
ELLCTV680M	68.0		100		1500	680
ELLCTV820M	82.0		120		1400	820
ELLCTV101M	100.0		150		1200	101
ELLCTV121M	120.0		190		1100	121
ELLCTV151M	150.0		220		1000	151
ELLCTV181M	180.0		270		930	181
ELLCTV221M	220.0		310		840	221
ELLCTV271M	270.0		400		810	271
ELLCTV331M	330.0		500		660	331
ELLCTV391M	390.0		560		630	391
ELLCTV471M	470.0		690		580	471
ELLCTV561M	560.0		810		540	561
ELLCTV681M	680.0		1010		470	681
ELLCTV821M	820.0		1140		440	821
ELLCTV102M	1000.0		1500		410	102

✻ Current: This indicates the value of current when the inductance is 70 % of nominal value or when the case temperature has risen 45 °C (at 20 °C)

■ Embossed Carrier Tape Dimensions in mm (not to scale)



Quantity 500 pcs./reel

⚠ Safety Precautions
(Common precautions for Power Inductors / Wire Wound type)

- When using our products, no matter what sort of equipment they might be used for, be sure to make a written agreement on the specifications with us in advance. The design and specifications in this catalog are subject to change without prior notice.
- Do not use the products beyond the specifications described in this catalog.
- This catalog explains the quality and performance of the products as individual components. Before use, check and evaluate their operations when installed in your products.
- Install the following systems for a failsafe design to ensure safety if these products are to be used in equipment where a defect in these products may cause the loss of human life or other significant damage, such as damage to vehicles (automobile, train, vessel), traffic lights, medical equipment, aerospace equipment, electric heating appliances, combustion/gas equipment, rotating equipment, and disaster/crime prevention equipment.

✻Systems equipped with a protection circuit and a protection device
✻Systems equipped with a redundant circuit or other system to prevent an unsafe status in the event of a single fault

⚠ Precautions for use

1. Operation range and environments
① These products are designed and manufactured for general and standard use in general electronic equipment (e.g. AV equipment, home electric appliances, office equipment, information and communication equipment)
② These products are not intended for use in the following special conditions. Before using the products, carefully check the effects on their quality and performance, and determine whether or not they can be used.
- In liquid, such as water, oil, chemicals, or organic solvent
- In direct sunlight, outdoors, or in dust
- In salty air or air with a high concentration of corrosive gas, such as Cl_2, H_2S, NH_3, SO_2, or NO_2
- In an environment where these products cause dew condensation

2. Handling
① Do not bring magnets or magnetized materials close to the product. The influence of their magnetic field can change the inductance value.
② Do not apply strong mechanical shocks by either dropping or collision with other parts.
Excessive shock can damage the part.

3. Washing of board
Kindly consult the Technical department before washing of the PWB with any cleansing agent, and provide the washing condition.

4. Resoldering with a soldering iron
The temperature of the tip of the soldering iron should be 360 °C or less, 4 seconds.
And resoldering with a soldering iron should be limited to 1 time, and after that should be cooling these.

5. Mounting side
External force must be less than 5.0 [N] : while mounting.

6. Storage conditions
Normal temperature (–5 to 35 °C), normal humidity (85 % RH max.), shall not be exposed to direct sunlight and harmful gases and care should be taken so as not to cause dew.

<Package markings>
Package markings include the product number, quantity, and country of origin.
In principle, the country of origin should be indicated in English.