

## Power Inductors / Wire Wound type

# Discontinued

Series : **G**  
Type : **ELLVEG**  
**ELLVFG-C**  
**ELLVGG**  
**ELLVGG-C**



Type ELLVEG



Type ELLVFG



Type ELLVGG



Type ELLVGG-C

### Features

- Magnetic shielded structure
- Low DC resistance and large current capability
- Shock resistant
- RoHS compliant

### Recommended Applications

- DSC, Tablet terminal, Portable game device, DC/DC converter circuit for cellular phone

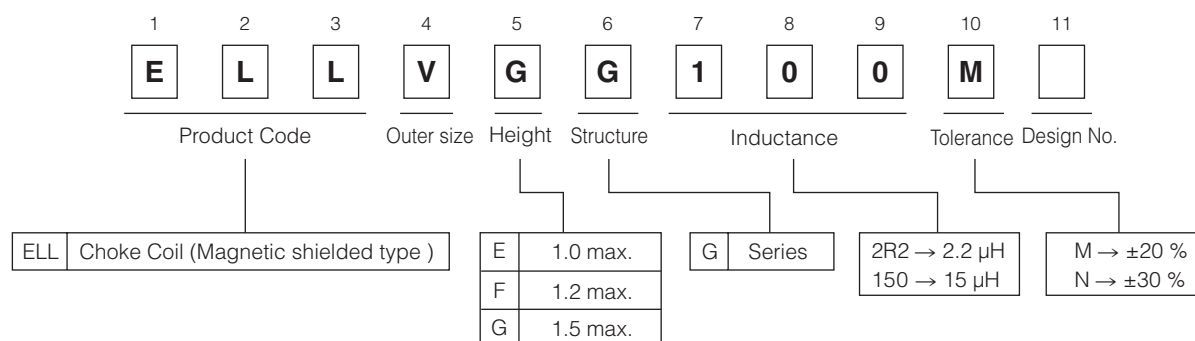
### Standard Packing Quantity

- 2,000 pcs./reel

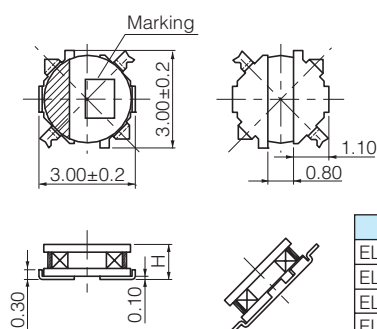
### As for Soldering Conditions and Safety Precautions,

Please see Data Files

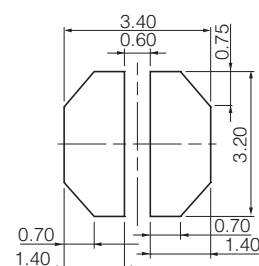
### Explanation of Part Numbers



### Dimensions in mm (not to scale)



### Recommended land patterns in mm (not to scale)



## Discontinued

## Standard Parts

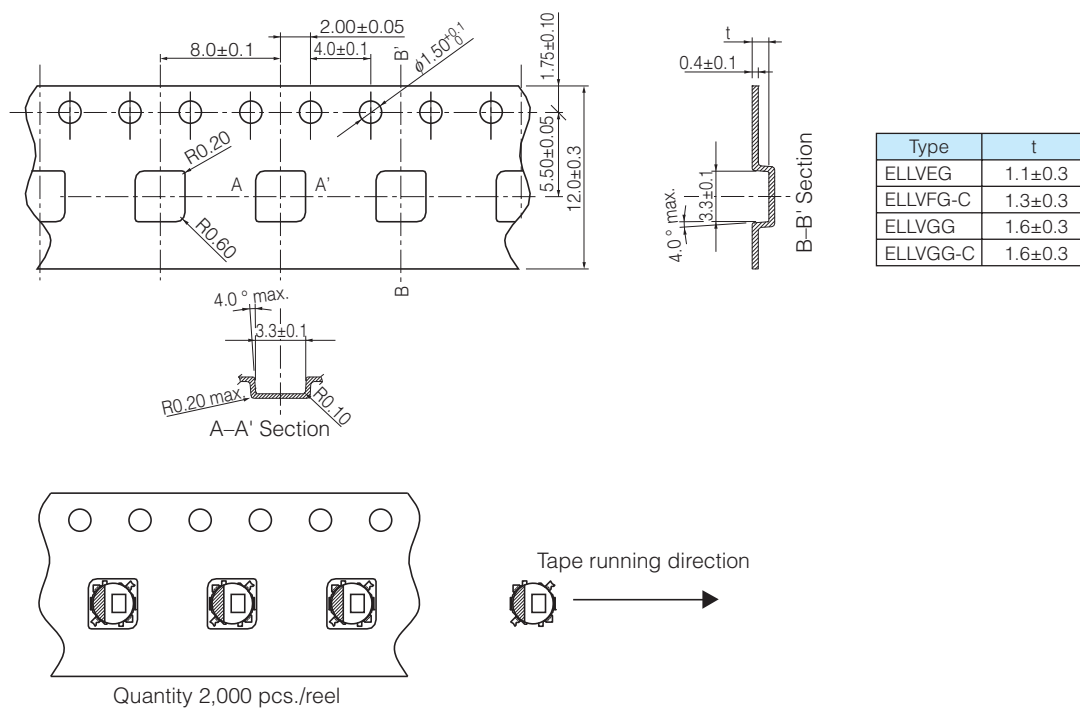
Series	Part No.	Inductance (100 kHz)		R <sub>DC</sub> (at 20 °C)		Saturation Rated Current*1 (mA max.)	Temperature Rise Current*2 (mA max.)	Marking
		(μH)	Tol.	(mΩ)	Tol.			
Series VEG	ELLVEGR68N	0.68	±30 %	50	±20 %	1950	1800	7
	ELLVEG1R0N	1.0		61		1900	1600	A
	ELLVEG1R5N	1.5		74		1200	1400	C
	ELLVEG2R2N	2.2		110		1100	1250	D
	ELLVEG3R3N	3.3		210		1000	820	E
	ELLVEG4R7N	4.7		240		750	770	H
	ELLVEG6R8N	6.8		350		580	650	K
	ELLVEG100M	10.0	±20 %	480		520	600	M
	ELLVEG150M	15.0		710		430	490	O
	ELLVEG220M	22.0		1200		330	400	R
Series VFG-C	ELLVFG1R0NC	1.0	±30 %	50		1500	1700	a
	ELLVFG1R5NC	1.5		61		1300	1550	c
	ELLVFG2R2NC	2.2		87		1100	1400	d
	ELLVFG3R3NC	3.3		110		980	1250	e
	ELLVFG4R7NC	4.7		150		740	1050	h
	ELLVFG6R8NC	6.8		230		600	840	k
	ELLVFG100MC	10.0	±20 %	380		550	640	m
	ELLVFG150MC	15.0		540		500	480	o
	ELLVFG220MC	22.0		710		350	430	r
Series VGG	ELLVGG330MC	33.0		1160		280	330	t
	ELLVGG1R0N	1.0	±30 %	52		2200	1800	A
	ELLVGG1R2N	1.2		61		2000	1600	B
	ELLVGG1R6N	1.6		73		1800	1550	C
	ELLVGG2R2N	2.2		92		1600	1400	D
	ELLVGG3R3N	3.3		130		1350	1100	E
	ELLVGG3R9N	3.9		150		1300	1000	F
	ELLVGG4R7N	4.7		170		1200	980	H
	ELLVGG6R8N	6.8		230		1000	800	K
	ELLVGG100M	10.0	±20 %	280		800	730	M
	ELLVGG120M	12.0		480		690	580	N
	ELLVGG150M	15.0		640		600	490	O
	ELLVGG220M	22.0		800		500	460	R
	ELLVGG330M	33.0		1330		450	340	T
	ELLVGG470M	47.0		2100		350	270	V
Series VGG-C	ELLVGG1R0NC	1.0	±30 %	47		1400	2000	≪
	ELLVGG2R2NC	2.2		79		1050	1500	⊐
	ELLVGG3R3NC	3.3		110		1000	1300	≡
	ELLVGG4R7NC	4.7		130		900	1200	≡
	ELLVGG6R8NC	6.8		180		700	1000	≧
	ELLVGG100MC	10.0	±20 %	260		600	860	≧
	ELLVGG120MC	12.0		280		550	730	Z
	ELLVGG150MC	15.0		420		450	670	○
	ELLVGG220MC	22.0		530		410	600	α
	ELLVGG330MC	33.0		790		350	450	⊢
	ELLVGG470MC	47.0		1200		260	360	>
	ELLVGG101MC	100		2950		180	250	∞

\*1 Saturation Rated Current : This DC current which causes a 30 % inductance reduction from its nominal value.

\*2 Temperature Rise Current : This indicates the value of current when temperature rise  $\Delta t/t = 40$  °C (at 20 °C).

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

Discontinued



## ⚠ 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<sub>2</sub>, H<sub>2</sub>S, NH<sub>3</sub>, SO<sub>2</sub>, or NO<sub>2</sub>
  - 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.