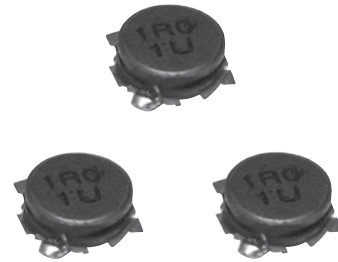


Power Inductors / Wire Wound type

Series : **G**
 Type : **ELL6GG**
ELL6PG



Features

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

Recommended Applications

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

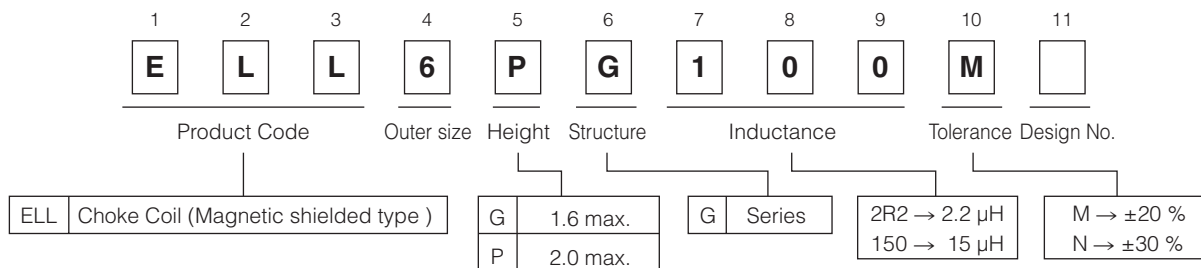
Standard Packing Quantity

- 1,000 pcs./reel

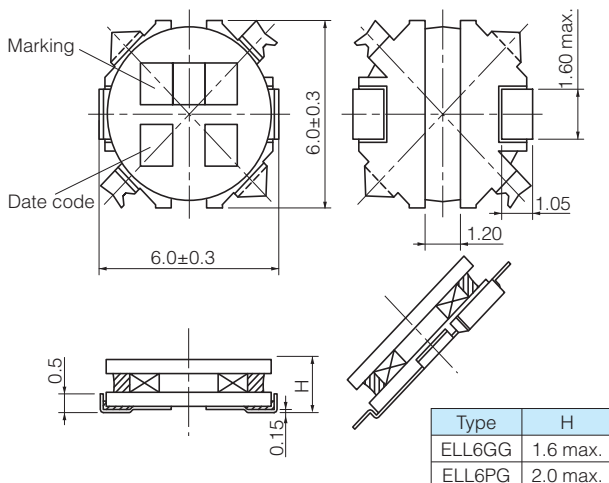
As for Soldering Conditions and Safety Precautions,

Please see Data Files

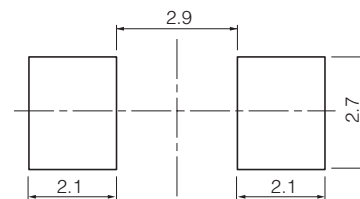
Explanation of Part Numbers



Dimensions in mm (not to scale)



Recommended land patterns in mm (not to scale)



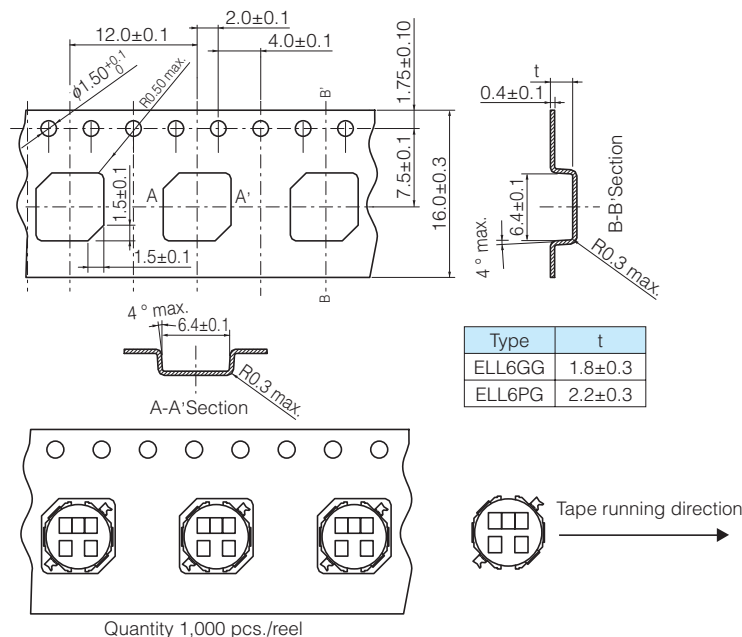
Standard Parts

Series	Part No.	Inductance (100 kHz)		Rbc (at 20 °C)		Saturation Rated Current*1 (mA max.)	Temperature Rise Current*2 (mA max.)	Marking
		(μH)	Tol.	(mΩ)	Tol.			
Series 6GG	ELL6GG1R0N	1.0	±30 %	27	±20 %	2500	2500	1R0
	ELL6GG1R5N	1.5		36		2300	2250	1R5
	ELL6GG2R2M	2.2		45		1950	2000	2R2
	ELL6GG2R7M	2.7	54	1850		1800	2R7	
	ELL6GG3R9M	3.9	60	1650		1700	3R9	
	ELL6GG4R7M	4.7	70	1400		1550	4R7	
	ELL6GG6R8M	6.8	110	1150		1300	6R8	
	ELL6GG100M	10.0	170	900		1000	100	
	ELL6GG150M	15.0	210	800		900	150	
	ELL6GG220M	22.0	300	620		850	220	
	ELL6GG330M	33.0	510	490		580	330	
	ELL6GG470M	47.0	610	400		480	470	
	ELL6GG680M	68.0	860	380		410	680	
	ELL6GG101M	100.0	1480	300		350	101	
Series 6PG	ELL6PGR08N	0.8	±30 %	24	±20 %	3800	2800	R08
	ELL6PG1R5N	1.5		30		2500	2500	1R5
	ELL6PG2R2N	2.2		37		2200	2200	2R2
	ELL6PG3R3N	3.3		44		1700	2000	3R3
	ELL6PG3R9N	3.9		51		1600	1900	3R9
	ELL6PG4R7N	4.7		58		1500	1750	4R7
	ELL6PG5R6N	5.6		65		1450	1650	5R6
	ELL6PG6R8N	6.8	70	1400		1600	6R8	
	ELL6PG100M	10.0	110	1300		1300	100	
	ELL6PG120M	12.0	140	1100		1200	120	
	ELL6PG150M	15.0	150	1000		1100	150	
	ELL6PG220M	22.0	230	800		900	220	
	ELL6PG270M	27.0	260	730		800	270	
	ELL6PG330M	33.0	300	700		750	330	
	ELL6PG470M	47.0	470	550		600	470	
	ELL6PG560M	56.0	520	500		550	560	
	ELL6PG680M	68.0	700	420		500	680	
ELL6PG820M	82.0	800	400	450	820			
ELL6PG101M	100.0	1000	380	400	101			

*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 $dt/t = 40\text{ °C}$ (at 20 °C).

Embossed Carrier Tape Dimensions in mm (not to scale)



⚠ 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 Cl₂, H₂S, NH₃, SO₂, or NO₂
 - 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.

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[PE-51506NL](#) [PE-53601NL](#) [PE-53602NL](#) [PE-53630NL](#) [PE-53824SNLT](#) [PE-62892NL](#) [PE-92100NL](#) [PG0434.801NLT](#) [PG0936.113NLT](#)
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