

Voltage Step-up Coils

Chip type







ELT3KN series

High inductance Voltage Step-up coil chip series for piezoelectric buzzers and DC/DC circuitry of EL panels

Features

- Small and thin
- High inductance
- RoHS compliant

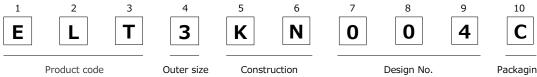
Recommended applications

• Piezoelectric buzzer, Booster circuit for EL backlight (Watch, Electric thermometer, Portable device)

Standard packing quantity (Minimum quantity/Packing unit)

●1,000 pcs or 5,000 pcs / reel

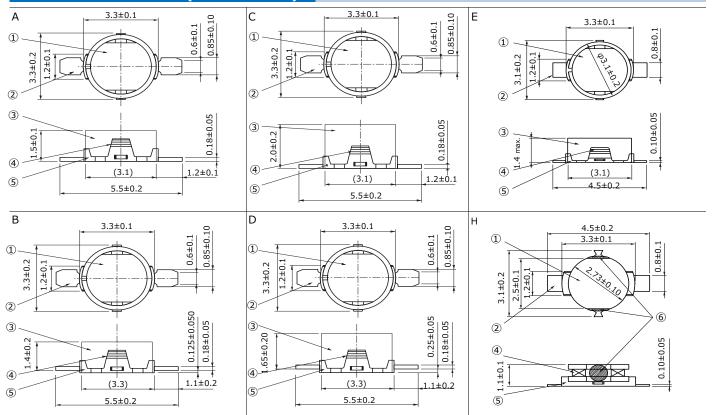
Explanation of part numbers



Code Packaging

B ø 180 Reel
C ø 370 Reel

Dimensions in mm (not to scale)



Part Name: ①Core ②Terminal ③Ring ④Coil ⑤Terminal board ⑥Adhesive



Standard parts										
	Indu	ctance	DC resistance		DC current		Magnetic			
Part No.	(mH)	Tolerance(%)	(Ω)	Tolerance(%)	(mA) max.	Dimensions	composition			
ELT3KN004□	14.00	. 40	125	1.10	1.7		D			
ELT3KN007	20.00	±40	170	±10	1.4		Permalloy ring			
ELT3KN113□	1.00		34		25.0	Α				
ELT3KN126□	1.50	±10	49	±15	29.0	1	Brass ring			
ELT3KN142	0.82		24		30.0					
ELT3KN019□	14.00	±40	125	±10	1.7		Permalloy ring			
ELT3KN109□	3.80	±10	115	±20	15.0	В	Brass ring			
ELT3KN114□	2.50	110	83	1	15.0		Brass ring			
ELT3KN014□	30.00	±40	150	±15	1.9					
ELT3KN018□	35.00	140	235	±10	1.9		Permalloy ring			
ELT3KN028□	50.00	±35	250	±15	1.4		remailoy mig			
ELT3KN032□	25.00	±40	185	±13	10.0					
ELT3KN101□	10.00		285	±10	1.4					
ELT3KN104□	1.00		35		30.0					
ELT3KN118□	2.50		64		20.0					
ELT3KN121□	1.00		22.5		40.0	С				
ELT3KN122□	2.00		44		20.0	C				
ELT3KN123□	1.00	±10	25		30.0		Brass ring			
ELT3KN124□	4.00		85		15.0		Drass ring			
ELT3KN127□	0.47		14	±15	50.0					
ELT3KN128□	0.56		15	113	45.0					
ELT3KN129□	0.68		17		34.0					
ELT3KN130□	2.30		51		23.0					
ELT3KN131□	2.00		44		20.0					
ELT3KN020□	30.00	±30	150		2.5		Permalloy ring			
ELT3KN111□	7.50	±10	177		10.0	D	Brass ring			
ELT3KN125□	4.00	±10	85		15.0		brass ring			
ELT3KN041□	14.00		125		1.7					
ELT3KN042□	20.00	±40	175	±10	1.4		Permalloy ring			
ELT3KN043□	12.00		117		1.7					
ELT3KN139□	0.68		19		40.0					
ELT3KN140□	0.82		22	±15	30.0					
ELT3KN135□	1.10		32	±13	30.0	E				
ELT3KN136□	2.00		55		20.0		Brass ring			
ELT3KN137□	4.00		117	±10	15.0]	Diass filig			
ELT3KN149□	0.33	±10	11		60.0					
ELT3KN151□	0.56		17	±15	50.0]				
ELT3KN152□	0.47		14	-10	50.0					
ELT3KN155□	1.10		38		25.0	Н	Ring less			
ELT3KN162□	4.00		117	±10	15.0	E	Brass ring			
ELT3KN163□	1.10		32	±15	30.0	L	Di ass Tilly			

[&]quot; \square " shows the packaging specifications.

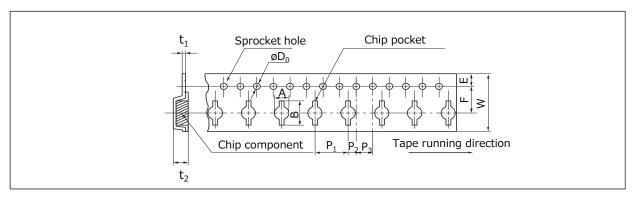


Packaging methods (Taping)

Standard packing quantity

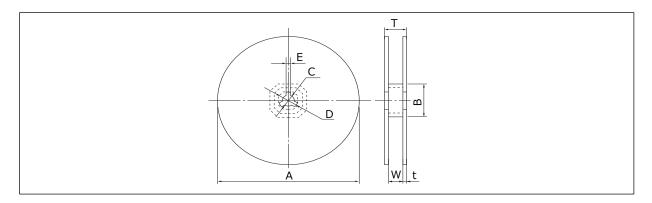
	Packaging	Quantity per reel	Kind of taping					
		Qualitity per reer	B 1,000 pcs. Embossed carrier					
	B 1,000 pcs		Embassed sarrier taning					
	С	5,000 pcs	Embossed carrier taping					

• Embossed carrier tape dimensions in mm (not to scale)



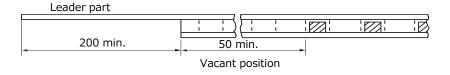
											Unit : mm
Part No.	Α	В	W	Е	F	P ₁	P_2	P_0	øD ₀	t ₁	t ₂
ELT3KN	3.7	6.4	12.0	1.75	5.5	8.0	2.0	4.0	1.5	0.3	2.6

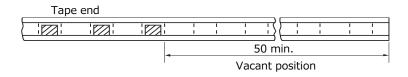
• Reel dimensions in mm (not to scale)



								Unit: min
Packaging	Α	В	С	D	Е	W	t	Т
В	180	60	13	21	2	13	1.1	15.2
С	370	60	13	21	2	14	2.0	18.0

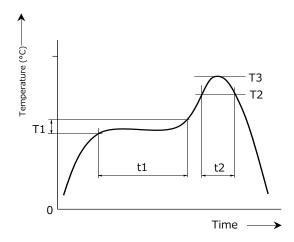
• Leader Part, Vacant Position





Soldering Conditions

Reflow soldering conditions



 Pb free solder recommended temperature profile Voltage Step-up Coils

Part No.	Prel	neat	Sold	ering	Peak Ten	Time of	
	T1 [℃]	t1 [s]	T2 [℃]	t2 [s]	T3	T3 Limit	Reflow
ELT3KN	150 to 170	60 to 120	230 ℃	30 max.	245 ℃, 10 s	260 ℃, 10 s	2 times max.

Guidelines and precautions regarding the technical information and use of our products described in this online catalog.

- If you want to use our products described in this online catalog for applications requiring special qualities or reliability, or for applications where the failure or malfunction of the products may directly jeopardize human life or potentially cause personal injury (e.g. aircraft and aerospace equipment, traffic and transportation equipment, combustion equipment, medical equipment, accident prevention, anti-crime equipment, and/or safety equipment), it is necessary to verify whether the specifications of our products fit to such applications. Please ensure that you will ask and check with our inquiry desk as to whether the specifications of our products fit to such applications use before you use our products.
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- The switchover date for compliance with the RoHS Directive/REACH Regulations varies depending on the part number or series of our products.
- When you use the inventory of our products for which it is unclear whether those products are compliant with the RoHS Directive/REACH Regulation, please select "Sales Inquiry" in the website inquiry form and contact us.

We do not take any responsibility for the use of our products outside the scope of the specifications, descriptions, guidelines and precautions described in this online catalog.





Safety Precautions

(Common precautions for Voltage Step-up Coils)

- · 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

①These 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)

- ②These products are not designed for the 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 NOx
 - ·In an environment where these products cause dew condensation

2. Handling

①Do not bring magnets or magnetized materials close to the product. The influence of their magnetic field can change the inductance value.

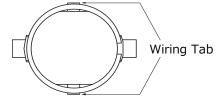
②Do not apply strong mechanical shocks by either dropping or collision with other parts. Excessive schock can damage the part.

3. Resoldering with a soldering iron

①Resoldering should be done within 3 seconds by soldering iron, the temperature with 350 °C or less and should be cooling down after ward. Both side of terminals shall be fixed closely to PWB. And terminals shall not be pressed in heating.



② The wiring tab shall not be held by sharp-edged tool.



③ Iron shall not be put to the component itself.

4. Mounting side

- 1) External force must be less than 4.9N while mounting.
- ② The wiring tab is expose the terminal, so please be careful when you design PWB pattern of coil circumference.

If you clean the inductor, please use own your ultrasonic cleaning to check specified conditions.

6. Storage conditions

Normal temperature (-5 to 35 ℃), 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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