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NL453232T-102J-PF

TDK

Fixed Inductors 1K UH 5%

Any questions, please feel free to contact us. info@kaimte.com



Inductors for standard circuits **Wound ferrite NL** series



NL453232 type













FEATURES

- Resin mold type wound inductor for standard circuits.
- © E-12 series, wide lineup compatible with J (±5%) tolerance, can be used for applications that need to meet strict L tolerance such as fil-
- O Has excellent inductance temperature characteristics in the operating temperature range.
- Operating temperature range: -40 to +105°C (including self-temperature rise)

APPLICATION

O Smart meters, AV equipment, xDSL, electronic devices for communications infrastructure such as mobile base stations, industrial equipment, other

PART NUMBER CONSTRUCTION



CHARACTERISTICS SPECIFICATION TABLE

L		Q	L, Q measuring	Self-resonant	DC resistance	Rated current	Part No.
			frequency	frequency			
(μH)	Tolerance	min.	(MHz)	(MHz)min.	(Ω)max.	(mA)max.	
1	±5%	50	7.96	100	0.5	450	NL453232T-1R0J-PF
1.2	±5%	50	7.96	80	0.55	430	NL453232T-1R2J-PF
1.5	±5%	50	7.96	70	0.6	410	NL453232T-1R5J-PF
1.8	±5%	50	7.96	60	0.65	390	NL453232T-1R8J-PF
2.2	±5%	50	7.96	55	0.7	380	NL453232T-2R2J-PF
2.7	±5%	50	7.96	50	0.75	370	NL453232T-2R7J-PF
3.3	±5%	50	7.96	45	0.8	355	NL453232T-3R3J-PF
3.9	±5%	50	7.96	40	0.9	330	NL453232T-3R9J-PF
4.7	±5%	50	7.96	35	1	315	NL453232T-4R7J-PF
5.6	±5%	50	7.96	33	1.1	300	NL453232T-5R6J-PF
6.8	±5%	50	7.96	27	1.2	285	NL453232T-6R8J-PF
8.2	±5%	50	7.96	25	1.4	270	NL453232T-8R2J-PF

Measurement item	Product No.	Manufacturer
L, Q	4294A	Keysight Technologies
Self-resonant frequency	8753D	Keysight Technologies
DC resistance	AX-114N	ADEX

^{*} Equivalent measurement equipment may be used.







■ CHARACTERISTICS SPECIFICATION TABLE

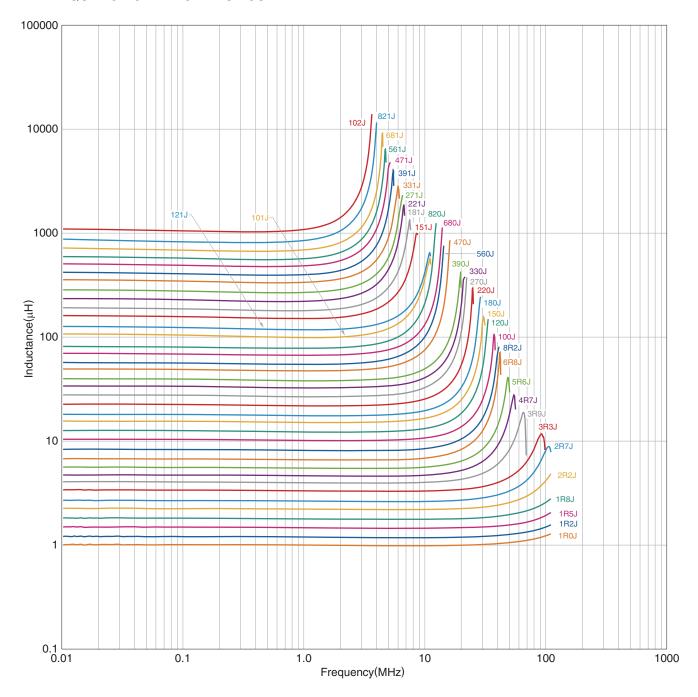
L		Q	L, Q measuring frequency	Self-resonant frequency	DC resistance	Rated current	Part No.
(μH)	Tolerance	min.	(MHz)	(MHz)min.	(Ω)max.	(mA)max.	
10	±5%	50	2.52	20	1.6	250	NL453232T-100J-PF
12	±5%	50	2.52	18	2	225	NL453232T-120J-PF
15	±5%	50	2.52	17	2.5	200	NL453232T-150J-PF
18	±5%	50	2.52	15	2.8	190	NL453232T-180J-PF
22	±5%	50	2.52	13	3.2	180	NL453232T-220J-PF
27	±5%	50	2.52	12	3.6	170	NL453232T-270J-PF
33	±5%	50	2.52	11	4	160	NL453232T-330J-PF
39	±5%	50	2.52	10	4.5	150	NL453232T-390J-PF
47	±5%	50	2.52	10	5	140	NL453232T-470J-PF
56	±5%	50	2.52	9	5.5	135	NL453232T-560J-PF
68	±5%	50	2.52	9	6	130	NL453232T-680J-PF
82	±5%	50	2.52	8	7	120	NL453232T-820J-PF
100	±5%	40	0.796	8	8	110	NL453232T-101J-PF
120	±5%	40	0.796	6	8	110	NL453232T-121J-PF
150	±5%	40	0.796	5	9	105	NL453232T-151J-PF
180	±5%	40	0.796	5	9.5	102	NL453232T-181J-PF
220	±5%	40	0.796	4	10	100	NL453232T-221J-PF
270	±5%	40	0.796	4	12	92	NL453232T-271J-PF
330	±5%	40	0.796	3.5	14	85	NL453232T-331J-PF
390	±5%	40	0.796	3	16	80	NL453232T-391J-PF
470	±5%	40	0.796	3	26	62	NL453232T-471J-PF
560	±5%	30	0.796	3	30	50	NL453232T-561J-PF
680	±5%	30	0.796	3	30	50	NL453232T-681J-PF
820	±5%	30	0.796	2.5	35	30	NL453232T-821J-PF
1000	±5%	30	0.252	2.5	40	30	NL453232T-102J-PF

Measurement item	Product No.	Manufacturer
L, Q	4294A	Keysight Technologies
Self-resonant frequency	E5063A	Keysight Technologies
DC resistance	AX-114N	ADEX

^{*} Equivalent measurement equipment may be used.



L FREQUENCY CHARACTERISTICS

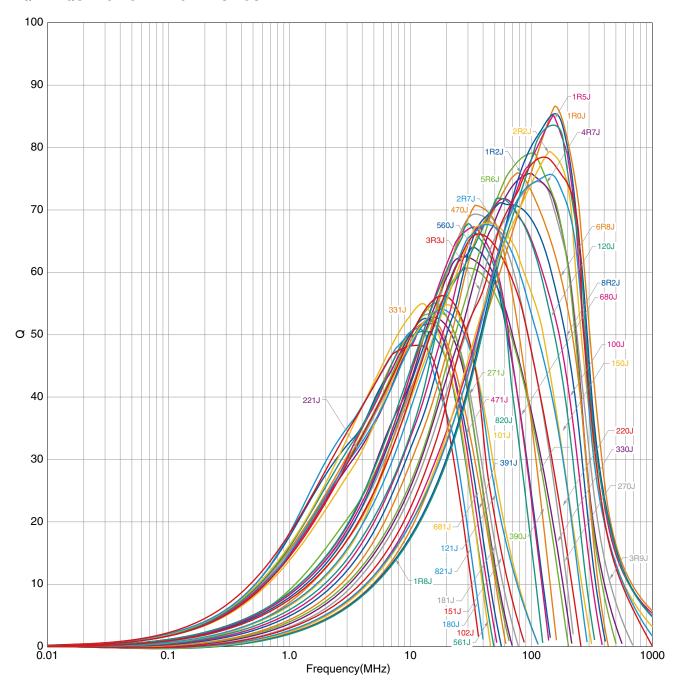


Product No.	Manufacturer
4294A	Keysight Technologies

^{*} Equivalent measurement equipment may be used.



Q FREQUENCY CHARACTERISTICS

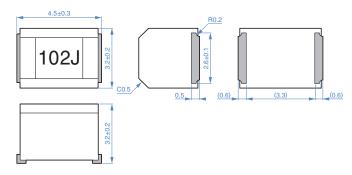


Product No.	Manufacturer
4294A	Keysight Technologies

^{*} Equivalent measurement equipment may be used.



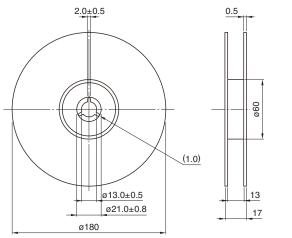
■ SHAPE & DIMENSIONS



Dimensions in mm

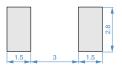
■PACKAGING STYLE

□REEL DIMENSIONS



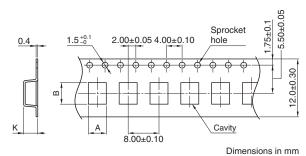
Dimensions in mm

RECOMMENDED LAND PATTERN



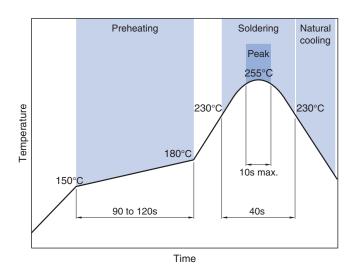
Dimensions in mm

TAPE DIMENSIONS



Туре	Α	В	K
NL453232	3.6	4.9	3.2

■ RECOMMENDED REFLOW PROFILE



□PACKAGE QUANTITY

Package quantity	500 pcs/reel

■ TEMPERATURE RANGE, INDIVIDUAL WEIGHT

Operating	Storage	Individual
temperature range*	temperature range**	weight
−40 to +105 °C	−40 to +105 °C	180 mg

Operating temperature range includes self-temperature rise.

^{**} The storage temperature range is for after the assembly.



REMINDERS FOR USING THESE PRODUCTS

Before using these products, be sure to request the delivery specifications.

SAFETY REMINDERS

Please pay sufficient attention to the warnings for safe designing when using this products.

⚠ REMINDERS
The storage period is within 6 months. Be sure to follow the storage conditions (temperature: 5 to 40°C, humidity: 10 to 75% RH or less). If the storage period elapses, the soldering of the terminal electrodes may deteriorate.
On not use or store in locations where there are conditions such as gas corrosion (salt, acid, alkali, etc.).
 Before soldering, be sure to preheat components. The preheating temperature should be set so that the temperature difference between the solder temperature and chip temperature does not exceed 150°C.
Soldering corrections after mounting should be within the range of the conditions determined in the specifications. If overheated, a short circuit, performance deterioration, or lifespan shortening may occur.
When embedding a printed circuit board where a chip is mounted to a set, be sure that residual stress is not given to the chip due to the overall distortion of the printed circuit board and partial distortion such as at screw tightening portions.
Self heating (temperature increase) occurs when the power is turned ON, so the tolerance should be sufficient for the set thermal design.
Carefully lay out the coil for the circuit board design of the non-magnetic shield type. A malfunction may occur due to magnetic interference.
Use a wrist band to discharge static electricity in your body through the grounding wire.
On not expose the products to magnets or magnetic fields.
On not use for a purpose outside of the contents regulated in the delivery specifications.
The products listed on this catalog are intended for use in general electronic equipment (AV equipment, telecommunications equipment, home appliances, amusement equipment, computer equipment, personal equipment, office equipment, measurement equipment, industrial robots) under a normal operation and use condition. The products are not designed or warranted to meet the requirements of the applications listed below, whose performance and/or qual-
ity require a more stringent level of safety or reliability, or whose failure, malfunction or trouble could cause serious damage to society,

- (1) Aerospace/aviation equipment
- (2) Transportation equipment (cars, electric trains, ships, etc.)
- (3) Medical equipment

person or property.

(4) Power-generation control equipment

set forth in the each catalog, please contact us.

- (5) Atomic energy-related equipment
- (6) Seabed equipment
- (7) Transportation control equipment

- (8) Public information-processing equipment
- (9) Military equipment
- (10) Electric heating apparatus, burning equipment
- (11) Disaster prevention/crime prevention equipment
- (12) Safety equipment
- (13) Other applications that are not considered general-purpose applications

When designing your equipment even for general-purpose applications, you are kindly requested to take into consideration securing protection circuit/device or providing backup circuits in your equipment.

If you intend to use the products in the applications listed below or if you have special requirements exceeding the range or conditions

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