INDUCTORS

公TDK

Pb

Inductors for decoupling circuits Wound ferrite NLFV-EF series



NLFV32-EF type

FEATURES

- O Resin mold type wound inductor for decoupling circuits.
- O Magnetic shield type containing ferrite powder in the exterior mold resin.
- Operating temperature range: -40 to +105°C (including self-temperature rise)

APPLICATION

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		L measuring frequency	DC resistance	Rated current	Part No.
(µH)	Tolerance	(MHz)	(Ω) ±20%	(mA)max.	
1	±20%	7.96	0.06	750	NLFV32T-1R0M-EF
1.5	±20%	7.96	0.07	600	NLFV32T-1R5M-EF
2.2	±20%	7.96	0.09	500	NLFV32T-2R2M-EF
3.3	±20%	7.96	0.11	420	NLFV32T-3R3M-EF
4.7	±20%	7.96	0.13	360	NLFV32T-4R7M-EF
6.8	±20%	7.96	0.17	260	NLFV32T-6R8M-EF
10	±10%	2.52	0.20	250	NLFV32T-100K-EF
15	±10%	2.52	0.30	140	NLFV32T-150K-EF
22	±10%	2.52	0.40	120	NLFV32T-220K-EF
33	±10%	2.52	0.65	95	NLFV32T-330K-EF
47	±10%	2.52	0.85	90	NLFV32T-470K-EF
68	±10%	2.52	1.3	70	NLFV32T-680K-EF
100	±10%	0.796	2.2	55	NLFV32T-101K-EF
150	±10%	0.796	2.9	50	NLFV32T-151K-EF
220	±10%	0.796	5.1	40	NLFV32T-221K-EF
330	±10%	0.796	6.8	35	NLFV32T-331K-EF
470	±10%	0.796	14.5	30	NLFV32T-471K-EF
680	±10%	0.796	18.5	25	NLFV32T-681K-EF
1000	±10%	0.252	22.5	20	NLFV32T-102K-EF

Measurement equipment

Measurement item	Product No.	Manufacturer
L	4294A+16093B	Keysight Technologies
DC resistance	AX-114N	ADEX

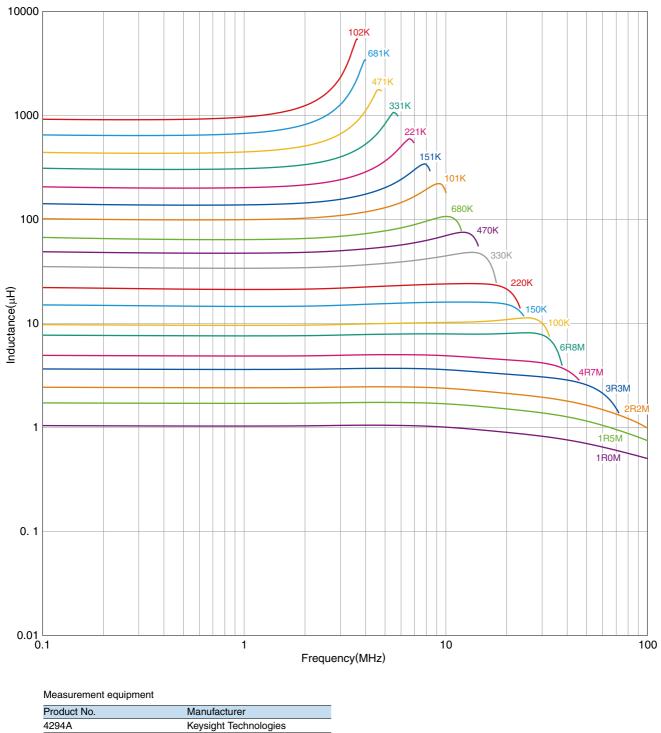
* Equivalent measurement equipment may be used.



A Please be sure to request delivery specifications that provide further details on the features and specifications of the products for proper and safe use. (1/6) Please note that the contents may change without any prior notice due to reasons such as upgrading.

NLFV32-EF type

L FREQUENCY CHARACTERISTICS



* Equivalent measurement equipment may be used.

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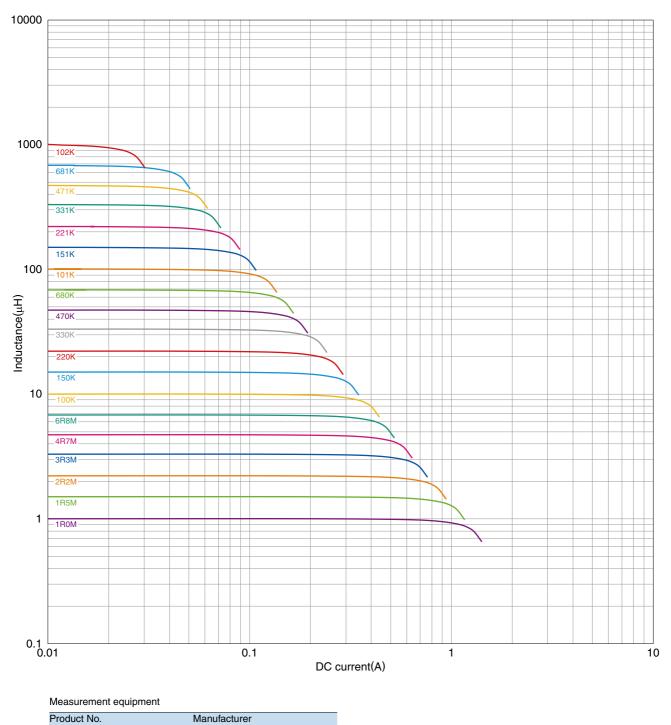
4285A+42841A+42842C

* Equivalent measurement equipment may be used.

Keysight Technologies

NLFV32-EF type

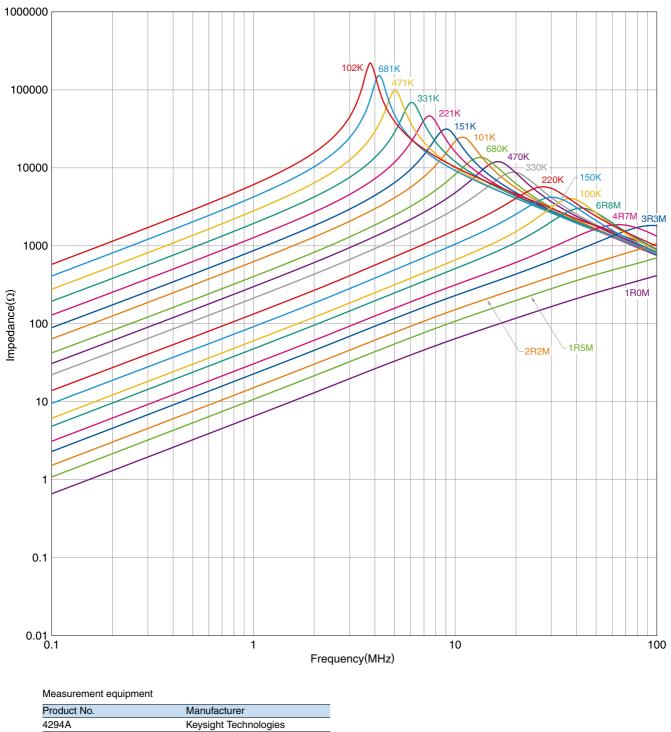
■ INDUCTANCE VS. DC BIAS CHARACTERISTICS



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NLFV32-EF type

■ IMPEDANCE VS. FREQUENCY CHARACTERISTICS

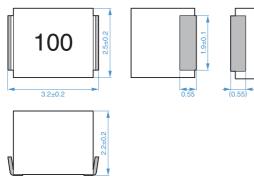


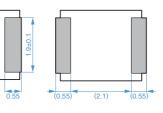
* Equivalent measurement equipment may be used.

A Please be sure to request delivery specifications that provide further details on the features and specifications of the products for proper and safe use. (4/6) Please note that the contents may change without any prior notice due to reasons such as upgrading.

NLFV32-EF type

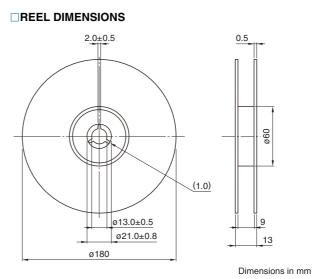
SHAPE & DIMENSIONS





Dimensions in mm

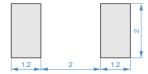
PACKAGING STYLE



TAPE DIMENSIONS

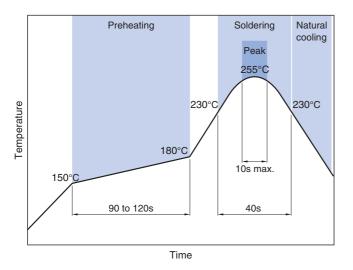
Туре	A	В	K
NLFV32-EF	2.8	3.5	2.3

RECOMMENDED LAND PATTERN



Dimensions in mm

RECOMMENDED REFLOW PROFILE



PACKAGE QUANTITY

Package quantity	2000 pcs/reel
r ackage quantity	2000 pcs/ieei

TEMPERATURE RANGE, INDIVIDUAL WEIGHT

Operating temperature range*	Storage temperature range**	Individual weight
–40 to +105 °C	–40 to +105 °C	50 mg
Operating temperature range includes self-temperature rise.		

Operating temperature range includes self-temperature ri
 ** The storage temperature range is for after the assembly.

Please be sure to request delivery specifications that provide further details on the features and specifications of the products for proper and safe use. (5/6) Please note that the contents may change without any prior notice due to reasons such as upgrading.

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.

 The storage period is less than 6 months. Be sure to follow the sto less). If the storage period elapses, the soldering of the terminal electrod 			
Do not use or store in locations where there are conditions such as gas corrosion (salt, acid, alkali, etc.).			
O Before soldering, be sure to preheat components.			
	e difference between the solder temperature and chip temperature		
 Soldering corrections after mounting should be within the range of If overheated, a short circuit, performance deterioration, or lifespar 	-		
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 tu design. 	rned ON, so the tolerance should be sufficient for the set thermal		
 Carefully lay out the coil for the circuit board design of the non-mag A malfunction may occur due to magnetic interference. 	gnetic shield type.		
\bigcirc Use a wrist band to discharge static electricity in your body through	the grounding wire.		
\bigcirc Do not expose the products to magnets or magnetic fields.			
\bigcirc Do not use for a purpose outside of the contents regulated in the d	elivery specifications.		
ment, industrial robots) under a normal operation and use conditio The products are not designed or warranted to meet the requireme ity require a more stringent level of safety or reliability, or whose fa person or property.	ment, personal equipment, office equipment, measurement equip-		
 (1) Aerospace/aviation equipment (2) Transportation equipment (cars, electric trains, ships, etc.) (3) Medical equipment (4) Power-generation control equipment (5) Atomic energy-related equipment (6) Seabed equipment (7) Transportation control equipment When designing your equipment even for general-purpose application tection circuit/device or providing backup circuits in your 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 		