

Inductors for decoupling circuits **Wound ferrite NLFV-EF** series









NLFV32-EF type













FEATURES

- 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

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

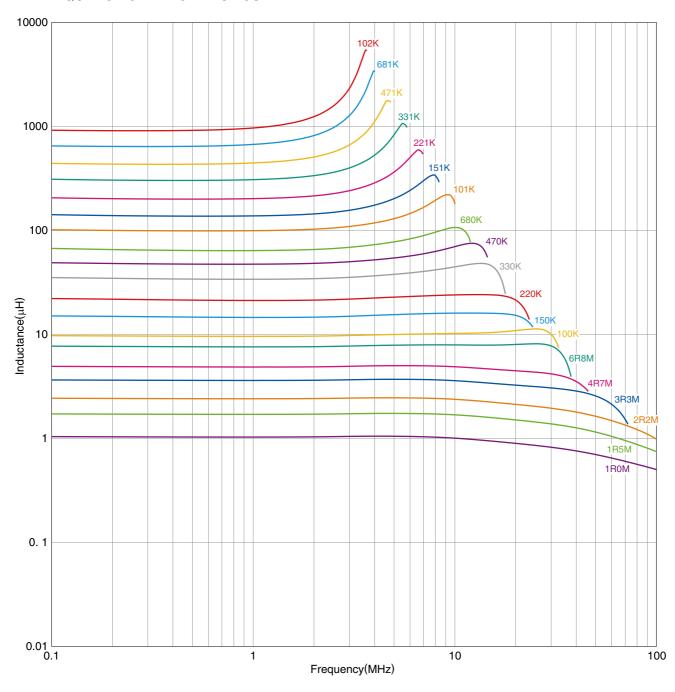
^{*} Equivalent measurement equipment may be used.







L FREQUENCY CHARACTERISTICS

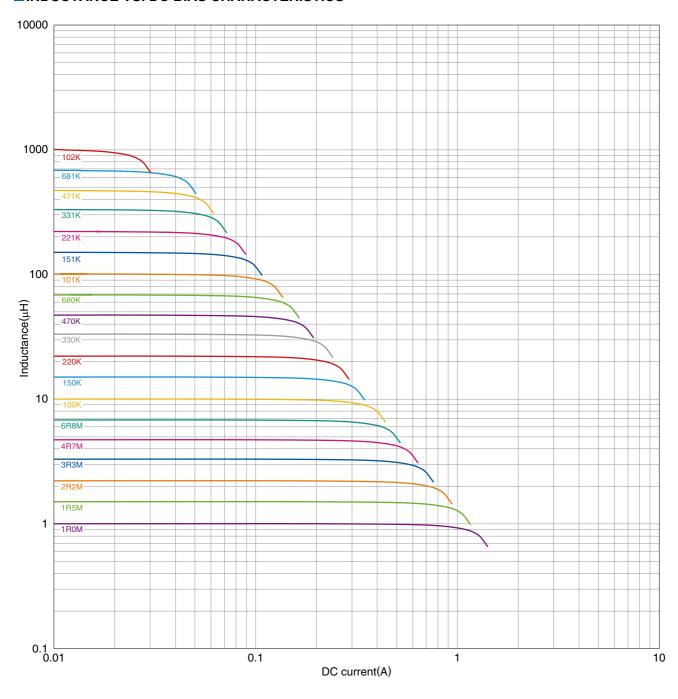


Product No.	Manufacturer
4294A	Keysight Technologies

^{*} Equivalent measurement equipment may be used.



■INDUCTANCE VS. DC BIAS CHARACTERISTICS

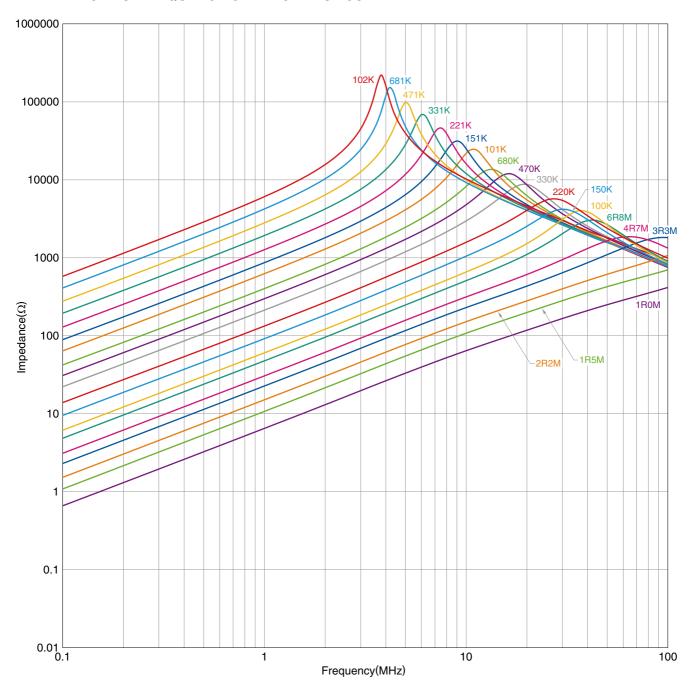


Product No.	Manufacturer
4285A+42841A+42842C	Keysight Technologies

^{*} Equivalent measurement equipment may be used.



■ IMPEDANCE VS. FREQUENCY CHARACTERISTICS

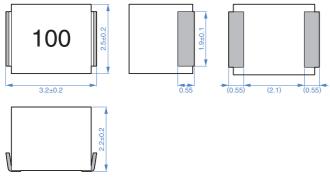


Product No.	Manufacturer
4294A	Keysight Technologies

^{*} Equivalent measurement equipment may be used.



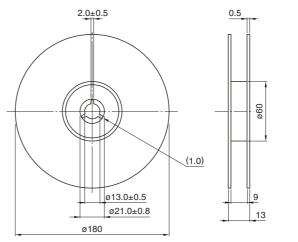
SHAPE & DIMENSIONS



Dimensions in mm

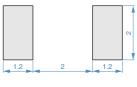
■PACKAGING STYLE

REEL DIMENSIONS



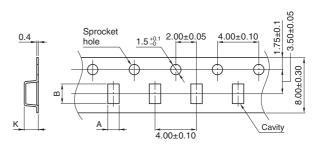
Dimensions in mm

■ RECOMMENDED LAND PATTERN



Dimensions in mm

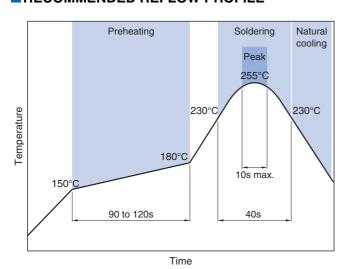
TAPE DIMENSIONS



Dimensions in mm

Туре	Α	В	K
NLFV32-EF	2.8	3.5	2.3

■ RECOMMENDED REFLOW PROFILE



□PACKAGE QUANTITY

Package quantity	2000 pcs/reel

■TEMPERATURE RANGE, INDIVIDUAL WEIGHT

Operating	Storage	Individual
temperature range*	temperature range**	weight
−40 to +105 °C	−40 to +105 °C	50 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.

<u></u> RE	MINDERS
 The storage period is less than 6 months. Be sure to follow the less). If the storage period elapses, the soldering of the terminal elections. 	storage conditions (temperature: 5 to 40°C, humidity: 10 to 75% RH or
Do not use or store in locations where there are conditions suc	
Before soldering, be sure to preheat components.	ature difference between the solder temperature and chip temperature
 Soldering corrections after mounting should be within the range If overheated, a short circuit, performance deterioration, or lifes 	•
 When embedding a printed circuit board where a chip is mour the overall distortion of the printed circuit board and partial dist 	ited to a set, be sure that residual stress is not given to the chip due to ortion such as at screw tightening portions.
 Self heating (temperature increase) occurs when the power i design. 	s turned ON, so the tolerance should be sufficient for the set thermal
 Carefully lay out the coil for the circuit board design of the non- A malfunction may occur due to magnetic interference. 	magnetic shield type.
Use a wrist band to discharge static electricity in your body thro	ough 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	ne delivery specifications.
ment, home appliances, amusement equipment, computer ed ment, industrial robots) under a normal operation and use cond The products are not designed or warranted to meet the require	neral electronic equipment (AV equipment, telecommunications equip- quipment, personal equipment, office equipment, measurement equip- dition.

- (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