INDUCTORS

⇔TDK

Inductors for decoupling circuits Wound ferrite NLCV-EFR series



NLCV32-EFR type

FEATURES

O Resin mold type wound inductor for decoupling circuits.

○ Operating temperature range: -40 to +125°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		Q	L, Q measuring frequency	DC resistance	Rated current	Part No.
(µH)	Tolerance	ref.	(MHz)	(Ω) ±20%	(mA)max.	
0.1	±20%	10	25.2	0.02	2850	NLCV32T-R10M-EFR
0.15	±20%	10	25.2	0.024	2600	NLCV32T-R15M-EFR
0.22	±20%	10	25.2	0.027	2400	NLCV32T-R22M-EFR
0.33	±20%	10	25.2	0.035	2100	NLCV32T-R33M-EFR
0.47	±20%	10	25.2	0.038	2000	NLCV32T-R47M-EFR
0.68	±20%	10	25.2	0.045	1900	NLCV32T-R68M-EFR
1	±20%	15	7.96	0.055	1700	NLCV32T-1R0M-EFR
1.5	±20%	15	7.96	0.095	1400	NLCV32T-1R5M-EFR
2.2	±20%	15	7.96	0.115	1200	NLCV32T-2R2M-EFR
3.3	±20%	15	7.96	0.16	1000	NLCV32T-3R3M-EFR
4.7	±20%	15	7.96	0.2	900	NLCV32T-4R7M-EFR
6.8	±20%	15	7.96	0.29	700	NLCV32T-6R8M-EFR
10	±10%	20	2.52	0.42	600	NLCV32T-100K-EFR

Measurement equipment

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

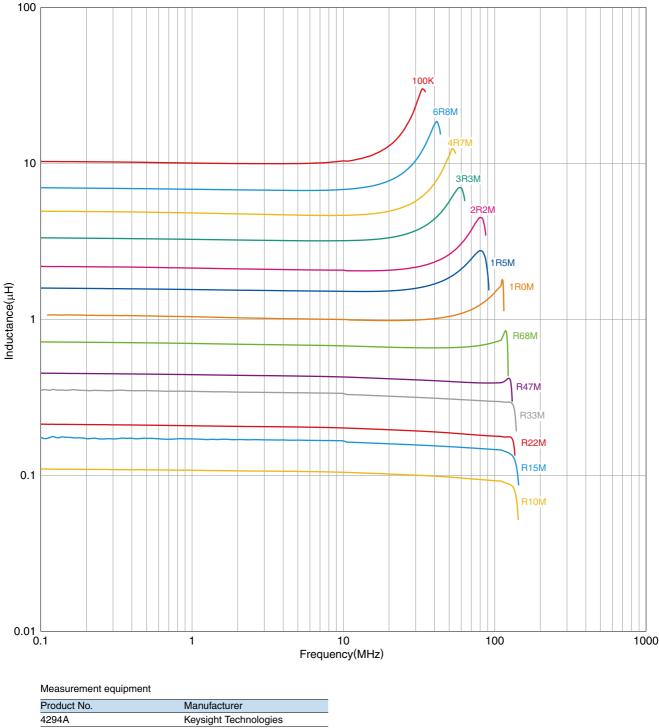
* Equivalent measurement equipment may be used.



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.

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L FREQUENCY CHARACTERISTICS

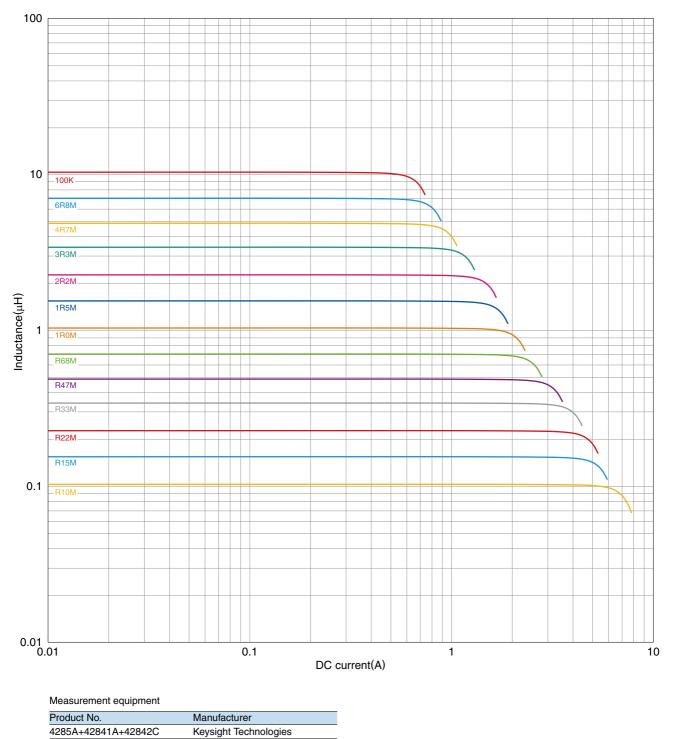


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■ INDUCTANCE VS. DC BIAS CHARACTERISTICS

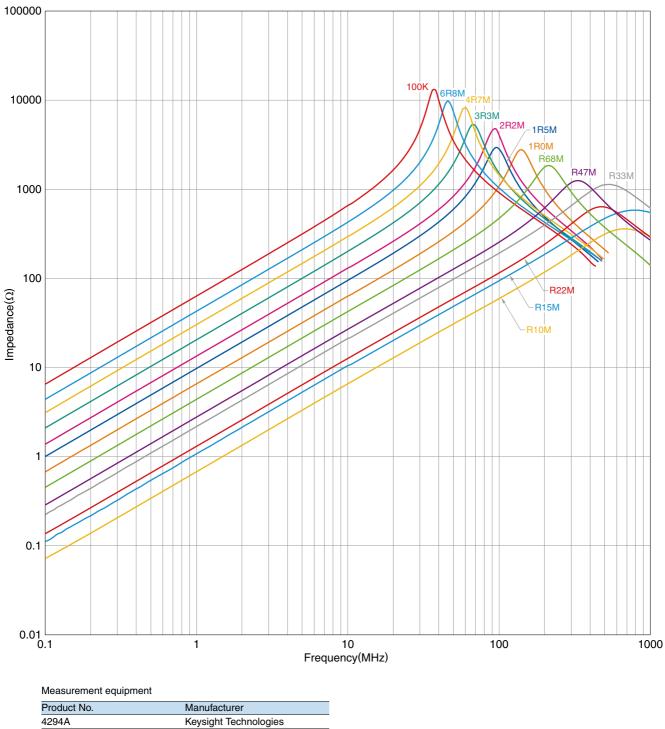
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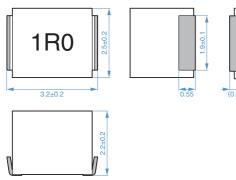
■ IMPEDANCE VS. FREQUENCY CHARACTERISTICS



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SHAPE & DIMENSIONS

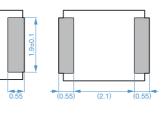


RECOMMENDED LAND PATTERN

1.2

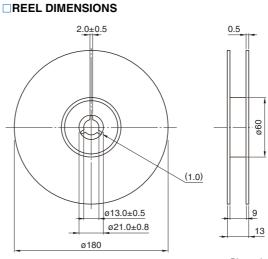
Dimensions in mm

1.2



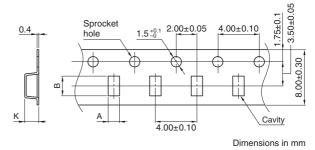
Dimensions in mm

PACKAGING STYLE



Dimensions in mm

TAPE DIMENSIONS



Туре	А	В	К
NLCV32-EFR	2.8	3.5	2.3

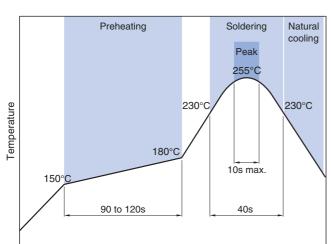
PACKAGE QUANTITY

	/ /
Package quantity	2000 pcs/reel

TEMPERATURE RANGE, INDIVIDUAL WEIGHT

	Operating temperature range*	Storage temperature range**	Individual weight
	–40 to +125 °C	–40 to +125 °C	50 mg
*	Operating temperature range includes self-temperature rise.		

** The storage temperature range is for after the assembly.



Time

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inductor_commercial_decoupling_nlcv32-efr_en

RECOMMENDED REFLOW PROFILE

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 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.			
\bigcirc Do 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. 			
\bigcirc Use a wrist band to discharge static electricity in your body through the through thr	he grounding wire.		
\bigcirc Do not expose the products to magnets or magnetic fields.			
O Do not use for a purpose outside of the contents regulated in the deli	ivery 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 quality require a more stringent level of safety or reliability, or whose failure, malfunction or trouble could cause serious damage to society, person or property. If you intend to use the products in the applications listed below or if you have special requirements exceeding the range or conditions set forth in the each catalog, please contact us. 			
 (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 applications, 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 you are kindly requested to take into consideration securing pro- 		

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