INDUCTORS

⇔TDK

Inductors for decoupling circuits Wound ferrite NLCV-EFR series

NLCV25-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%	5	25.2	0.04	1890	NLCV25T-R10M-EFR
0.15	±20%	5	25.2	0.044	1800	NLCV25T-R15M-EFR
0.22	±20%	5	25.2	0.05	1690	NLCV25T-R22M-EFR
0.33	±20%	5	25.2	0.065	1480	NLCV25T-R33M-EFR
0.47	±20%	5	25.2	0.08	1340	NLCV25T-R47M-EFR
0.68	±20%	5	25.2	0.09	1260	NLCV25T-R68M-EFR
1	±20%	10	7.96	0.14	1000	NLCV25T-1R0M-EFR
1.5	±20%	10	7.96	0.18	890	NLCV25T-1R5M-EFR
2.2	±20%	10	7.96	0.27	730	NLCV25T-2R2M-EFR
3.3	±20%	10	7.96	0.44	570	NLCV25T-3R3M-EFR
4.7	±20%	10	7.96	0.57	500	NLCV25T-4R7M-EFR
6.8	±20%	10	7.96	0.92	390	NLCV25T-6R8M-EFR
10	±10%	15	2.52	1.1	360	NLCV25T-100K-EFR

Measurement equipment

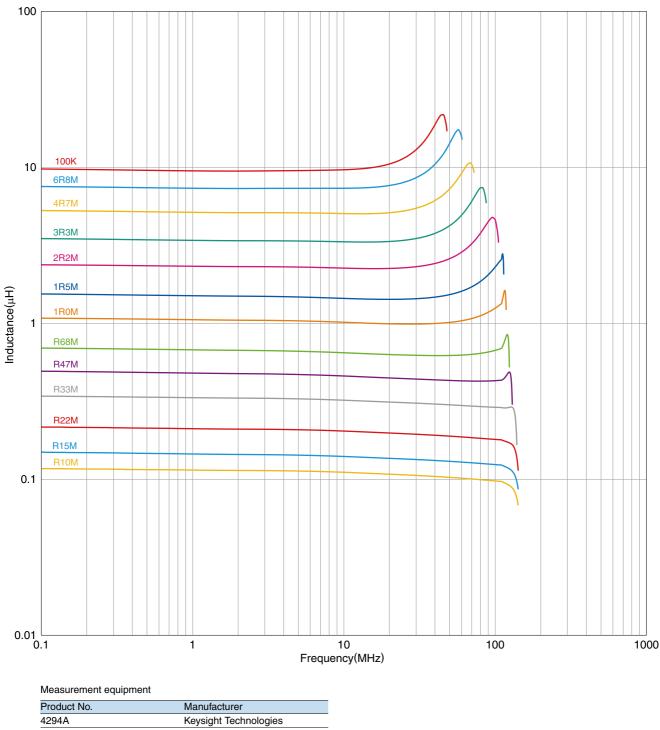
Measurement item	Product No.	Manufacturer
L, Q	4294A+16093B	Keysight Technologies
DC resistance	AX-114N	ADEX

* 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.

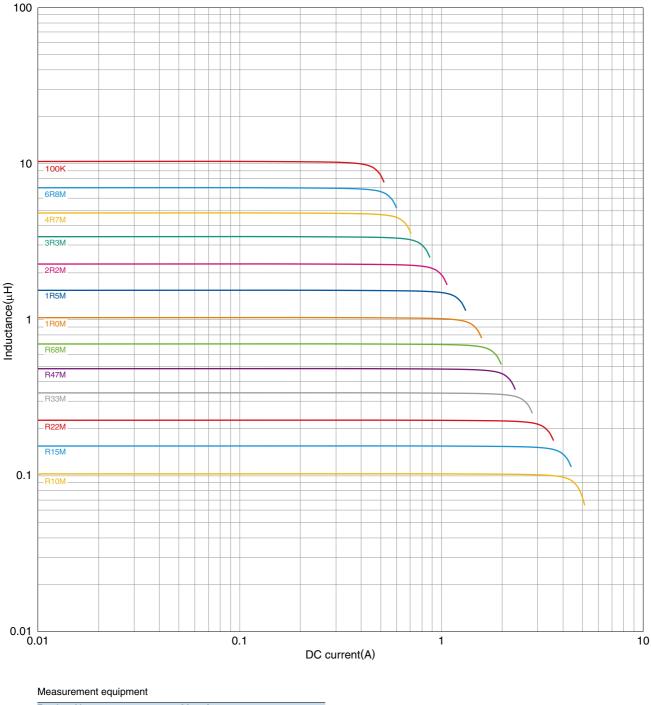
L FREQUENCY CHARACTERISTICS



* Equivalent measurement equipment may be used.

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■ INDUCTANCE VS. DC BIAS CHARACTERISTICS



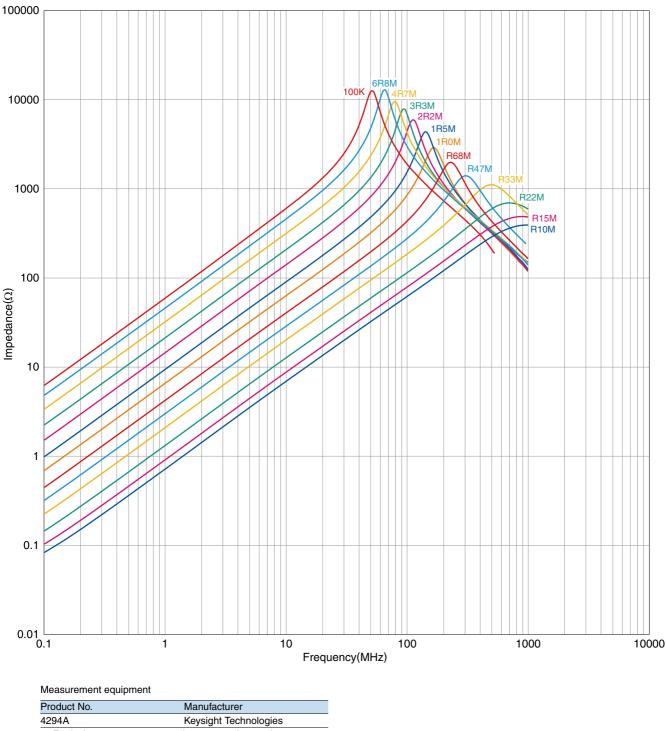
Product No. Manufacturer

4285A+42841A+42842C Keysight Technologies

* Equivalent measurement equipment may be used.

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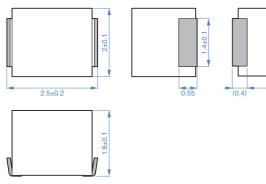
■ IMPEDANCE VS. FREQUENCY CHARACTERISTICS

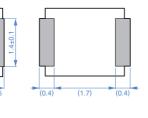


* Equivalent measurement equipment may be used.

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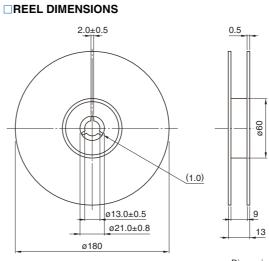
SHAPE & DIMENSIONS





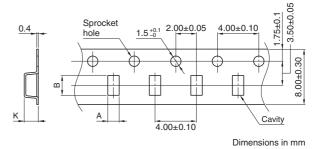
Dimensions in mm

PACKAGING STYLE



Dimensions in mm

TAPE DIMENSIONS



Туре	А	В	К
NLCV25-EFR	2.3	2.7	2

PACKAGE QUANTITY

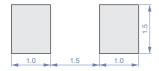
Package quantity	2000 pcs/reel
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TEMPERATURE RANGE, INDIVIDUAL WEIGHT

	Operating temperature range*	Storage temperature range**	Individual weight
	–40 to +125 °C	–40 to +125 °C	25 mg
*	Operating temperature range includes self-temperature rise.		

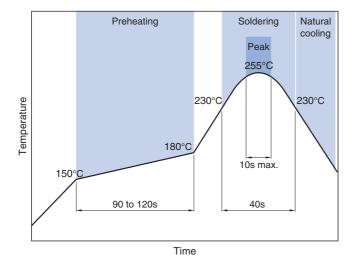
** The storage temperature range is for after the assembly.

RECOMMENDED LAND PATTERN



Dimensions in mm

RECOMMENDED REFLOW PROFILE



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 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.		
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 does not exceed 150°C. 	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 turned ON, so the tolerance should be sufficient for the set therma design.		
 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.	
○ Use a wrist band to discharge static electricity in your body through	n the grounding wire.	
O Do not expose the products to magnets or magnetic fields.		
O 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 	

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. (6/6) Please note that the contents may change without any prior notice due to reasons such as upgrading.