INDUCTORS

⊗TDK

Pb

Inductors for decoupling circuits Wound ferrite NLFV-EF series



NLFV25-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	0.07	455	NLFV25T-1R0M-EF
1.5	±20%	7.96	0.09	350	NLFV25T-1R5M-EF
2.2	±20%	7.96	0.1	315	NLFV25T-2R2M-EF
3.3	±20%	7.96	0.2	280	NLFV25T-3R3M-EF
4.7	±20%	7.96	0.24	210	NLFV25T-4R7M-EF
6.8	±20%	7.96	0.29	175	NLFV25T-6R8M-EF
10	±10%	2.52	0.36	155	NLFV25T-100K-EF
15	±10%	2.52	0.75	130	NLFV25T-150K-EF
22	±10%	2.52	1	105	NLFV25T-220K-EF
33	±10%	2.52	1.4	85	NLFV25T-330K-EF
47	±10%	2.52	1.7	60	NLFV25T-470K-EF
68	±10%	2.52	3.3	50	NLFV25T-680K-EF
100	±10%	0.796	4	40	NLFV25T-101K-EF

Measurement equipment

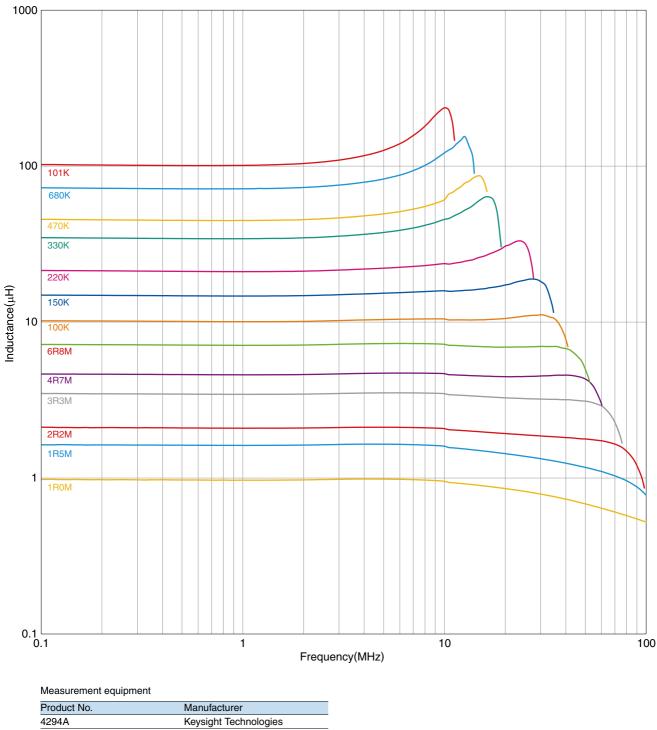
Measurement item	Product No.	Manufacturer	
L	4294A+16093B	Keysight Technologies	
DC resistance AX-114N ADEX			
* Equivalent massurement equipment may be used			

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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.

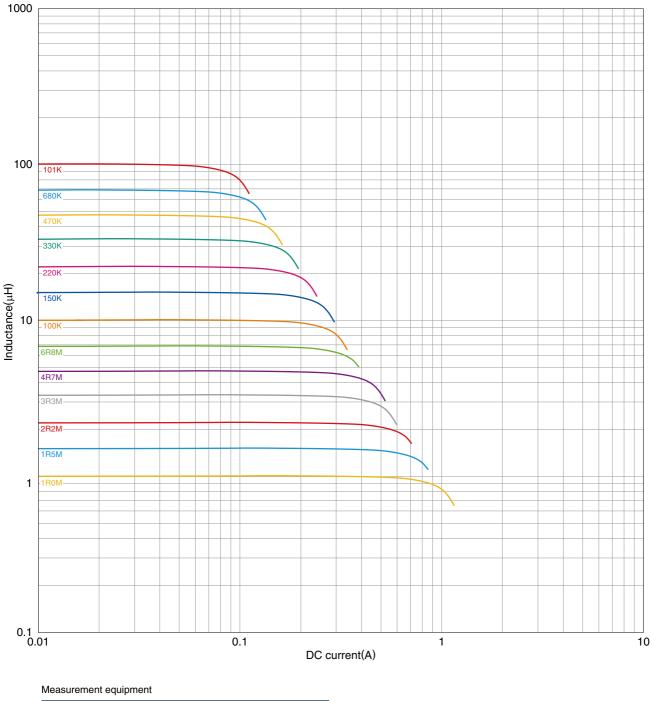
L FREQUENCY CHARACTERISTICS



* Equivalent measurement equipment may be used.

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. (2/6) Please note that the contents may change without any prior notice due to reasons such as upgrading.

■ INDUCTANCE VS. DC BIAS CHARACTERISTICS



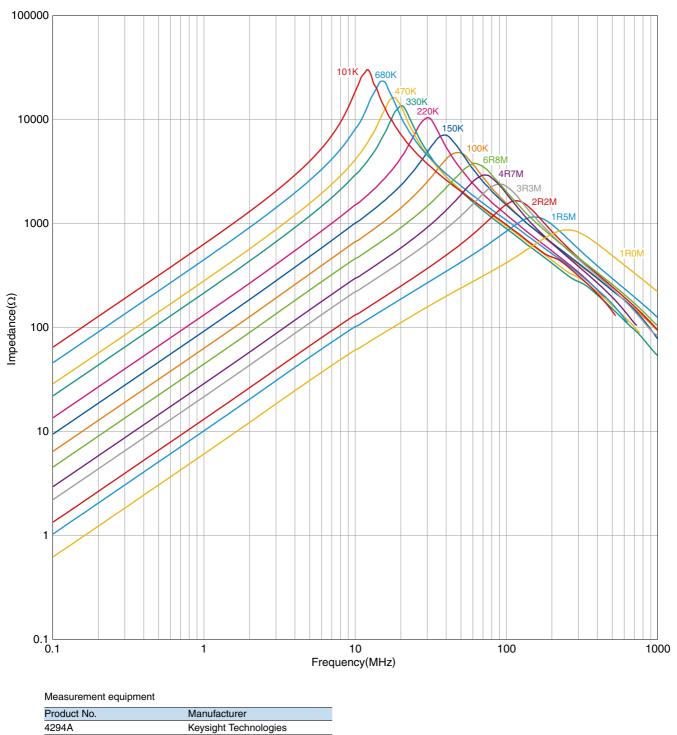
Product No.Manufacturer4285A+42841A+42842CKeysight Technologies

 4285A+42841A+42842C
 Keysight Technologies

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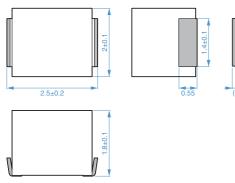
■ IMPEDANCE VS. FREQUENCY CHARACTERISTICS

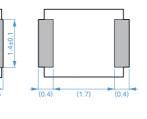


* Equivalent measurement equipment may be used.

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.

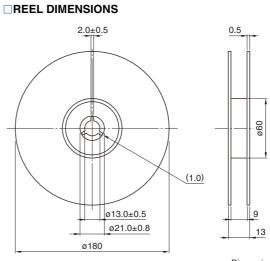
SHAPE & DIMENSIONS





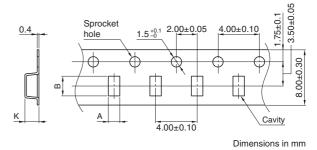
Dimensions in mm

PACKAGING STYLE



Dimensions in mm

TAPE DIMENSIONS



T	•	D	14
Туре	A	В	ĸ
NLFV25-EF	2.3	2.7	2

RECOMMENDED LAND PATTERN



Dimensions in mm

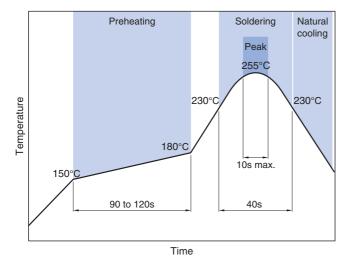
PACKAGE QUANTITY

Package quantity	2000 pcs/reel

TEMPERATURE RANGE, INDIVIDUAL WEIGHT

	Operating temperature range*	Storage temperature range**	Individual weight
	–40 to +105 °C	–40 to +105 °C	25 mg
*	 Operating temperature range includes self-temperature rise. 		

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



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. Please note that the contents may change without any prior notice due to reasons such as upgrading. (5/6)

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 stor less). If the storage period elapses, the soldering of the terminal electrod 		
O Do not use or store in locations where there are conditions such as		
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 lifespan 		
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 tur 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. 	netic 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 de	elivery specifications.	
ment, industrial robots) under a normal operation and use condition The products are not designed or warranted to meet the requirement ity require a more stringent level of safety or reliability, or whose fait 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 	