INDUCTORS

⊗TDK

Inductors for decoupling circuits Wound ferrite NLCV-EFD series (for automotive)





FEATURES

O Resin mold type wound inductor for decoupling circuits.

○ Operating temperature range: -40 to +105°C (including self-temperature rise)

O Compliant with AEC-Q200

APPLICATION

Vehicle accessories (car navigation systems, car audio, ETC, other)
 Application guides: <u>Car Infotainment</u>

PART NUMBER CONSTRUCTION



CHARACTERISTICS SPECIFICATION TABLE

L		Q	L, Q measuring frequency	Self-resonant frequency	DC resistance	Rated current	Part No.
(µH)	Tolerance	ref.	(MHz)	(MHz)min.	(Ω)±30%	(mA)max.	
1	±20%	10	7.96	100	0.06	1000	NLCV32T-1R0M-EFD
1.5	±20%	10	7.96	80	0.11	830	NLCV32T-1R5M-EFD
2.2	±20%	10	7.96	68	0.13	770	NLCV32T-2R2M-EFD
3.3	±20%	10	7.96	54	0.16	690	NLCV32T-3R3M-EFD
4.7	±20%	15	7.96	46	0.2	620	NLCV32T-4R7M-EFD
6.8	±20%	15	7.96	38	0.27	530	NLCV32T-6R8M-EFD
10	±10%	15	2.52	30	0.36	450	NLCV32T-100K-EFD
15	±10%	15	2.52	26	0.56	370	NLCV32T-150K-EFD
22	±10%	15	2.52	21	0.77	300	NLCV32T-220K-EFD
33	±10%	15	2.52	17	1.1	240	NLCV32T-330K-EFD
47	±10%	15	2.52	14	1.64	180	NLCV32T-470K-EFD
68	±10%	15	2.52	12	2.8	140	NLCV32T-680K-EFD
100	±10%	15	0.796	10	3.7	120	NLCV32T-101K-EFD
150	±10%	20	0.796	8	6.1	100	NLCV32T-151K-EFD
220	±10%	20	0.796	7	8.4	80	NLCV32T-221K-EFD
330	±10%	20	0.796	6	12.3	70	NLCV32T-331K-EFD

Measurement equipment

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

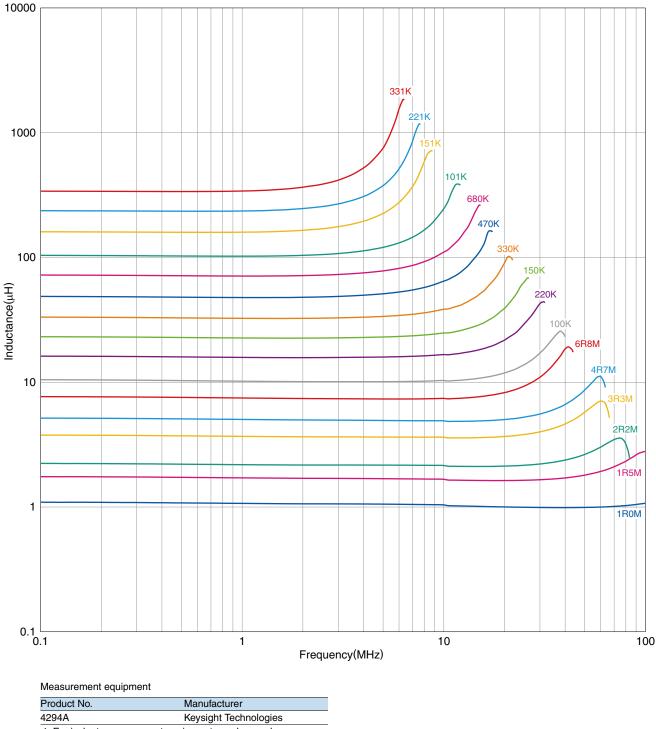
* Equivalent measurement equipment may be used.



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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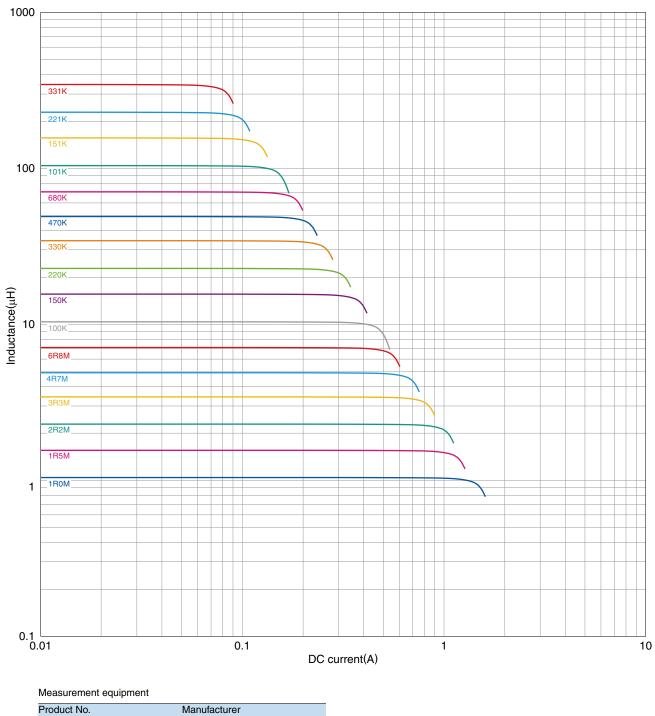
L FREQUENCY CHARACTERISTICS



* Equivalent measurement equipment may be used.

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■ INDUCTANCE VS. DC BIAS CHARACTERISTICS

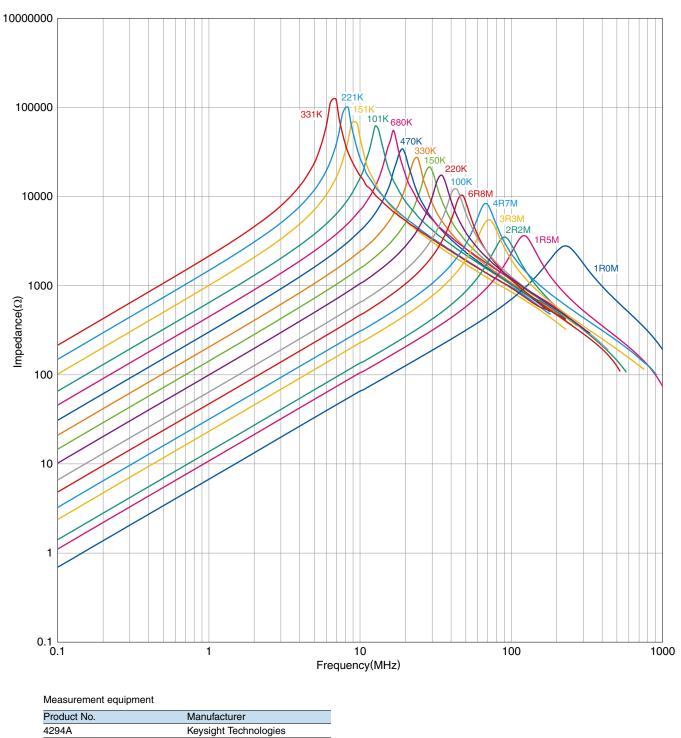


4285A+42841A+42842C Keysight Technologies

* Equivalent measurement equipment may be used.

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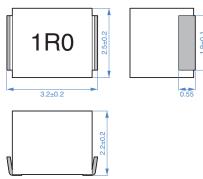
■ IMPEDANCE VS. FREQUENCY CHARACTERISTICS

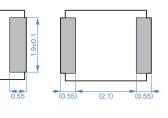


* Equivalent measurement equipment may be used.

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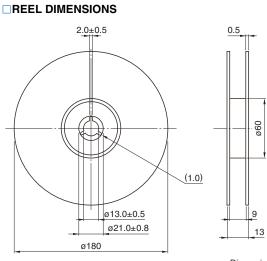
SHAPE & DIMENSIONS





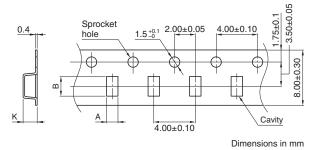
Dimensions in mm

PACKAGING STYLE



Dimensions in mm

TAPE DIMENSIONS



Туре	A	В	К
	28	35	23

RECOMMENDED LAND PATTERN



Dimensions in mm

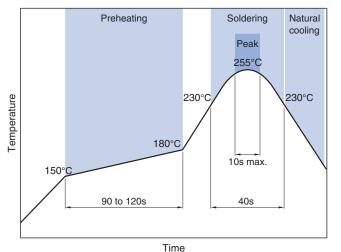
PACKAGE QUANTITY

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	50 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)

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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.

less).	storage conditions (temperature: 5 to 40°C, humidity: 10 to 75% RH o		
If the storage period elapses, the soldering of the terminal elect	rodes may deteriorate.		
O 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 temperators does not exceed 150°C. 	ture 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 mounted to a set, be sure that residual stress is not given to the chip due 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 design. 	turned ON, so the tolerance should be sufficient for the set therma		
 Carefully lay out the coil for the circuit board design of the non-r A malfunction may occur due to magnetic interference. 	nagnetic shield type.		
\bigcirc Use a wrist band to discharge static electricity in your body thro	ugh 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 th	e delivery specifications.		
ment, home appliances, amusement equipment, computer eq ment, industrial robots) under a normal operation and use cond The products are not designed or warranted to meet the require ity require a more stringent level of safety or reliability, or whose person or property.	eral electronic equipment (AV equipment, telecommunications equip- uipment, personal equipment, office equipment, measurement equip- ition. ments of the applications listed below, whose performance and/or qual- e failure, malfunction or trouble could cause serious damage to society or if you have special requirements exceeding the range or conditions		
 (1) Aerospace/aviation equipment (2) Transportation equipment (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 applica 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.

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MLZ1608M6R8WTD25 MLZ1608N6R8LT000 MLZ1608N3R3LTD25 MLZ1608N3R3LT000 MLZ1608N150LT000 MLZ1608M150WTD25 MLZ1608M3R3WTD25 MLZ1608M3R3WT000 MLZ1608M150WT000 MLZ1608A1R5WT000 MLZ1608N1R5LT000 B82432C1333K000 PCMB053T-1R0MS PCMB053T-1R5MS PCMB104T-1R5MS CR32NP-100KC CR32NP-151KC CR32NP-180KC CR32NP-181KC CR32NP-1R5MC CR32NP-390KC CR32NP-3R9MC CR32NP-680KC CR32NP-820KC CR32NP-8R2MC CR43NP-390KC CR43NP-560KC CR43NP-680KC CR54NP-181KC CR54NP-470LC CR54NP-820KC CR54NP-8R5MC MGDQ4-00004-P MGDU1-00016-P MHL1ECTTP18NJ MHL1JCTTD12NJ PE-51506NL PE-53601NL PE-53630NL PE-53824SNLT PE-62892NL PE-92100NL PG0434.801NLT PG0936.113NLT PM06-2N7 PM06-39NJ HC2LP-R47-R HC2-R47-R HC3-2R2-R HC8-1R2-R