INDUCTORS

⇔TDK

Inductors for decoupling circuits Soft termination KLZ-HR series (for automotive)





FEATURES

- O The KLZ series include inductors for decoupling circuits that have top-class DC superimposition characteristics and low DC resistance.
- O They are compatible with wide frequency band noise, from low to high frequency.
- O Guide electric property resin absorbs external stress, and mechanical stress, resistance force to thermal shock is improved.
- Easing by conductive resin thermal stress, and respond for High-temperature environment of 150°C, too.
- Operating temperature range: -55 to +150°C (including self-temperature rise)

O Compliant with AEC-Q200

APPLICATION

Automotive equipment, smart phones, tablet terminals, note PCs, various modules such as camera modules, DSCs, video games, portable memory audio devices, navigation systems, PNDs, WLANs, SSDs

O Application guides: Car Infotainment

PART NUMBER CONSTRUCTION

KLZ	1608	Α	HR	1R0	W	Т	D25
Series	L×W×H dimensions	Product	Specifications	Inductance	Characteristic type	Pookoging style	Internal
name	1.6×0.8×0.8 mm	internal code	(Grade)	(µH)	Characteristic type	Packaging style	code

CHARACTERISTICS SPECIFICATION TABLE

Туре	L		L measuring	conditions	DC resistance	Isat*1	Itemp*2	Part No.
			Frequency	Current				
	(µH)	Tolerance	(MHz)	(mA)	(Ω)±30%	(mA)	(mA)	
	1.00	±20%	10	1.0	0.15	190	600	KLZ1608AHR1R0WTD25
Lawre	2.20	±20%	10	1.0	0.25	130	500	KLZ1608AHR2R2WTD25
Large current	4.70	±20%	2	0.1	0.50	120	350	KLZ1608MHR4R7WTD25
current	10.0	±20%	2	0.1	1.05	90	250	KLZ1608MHR100WTD25
	22.0	±20%	2	0.1	2.40	55	150	KLZ1608MHR220WTD25

*1 Current assumed when inductance ratio has decreased by 50% max..

*2 Current assumed when temperature has risen to 20°C max. (reference value). Operating temperature environment at this time: 130°C max.

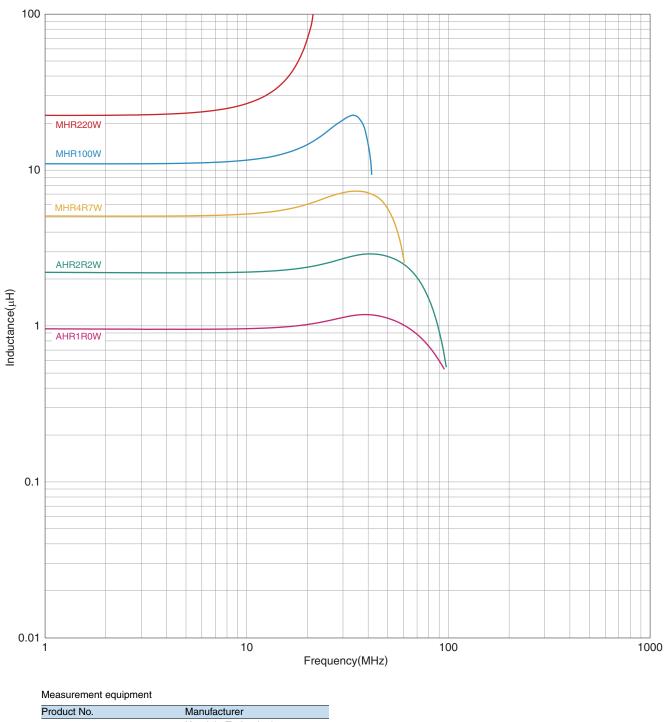
Measurement equipment

Measurement item	Product No.	Manufacturer
L	4294A+16034G	Keysight Technologies
DC resistance	Type-7561	Yokogawa

* Equivalent measurement equipment may be used.



L FREQUENCY CHARACTERISTICS

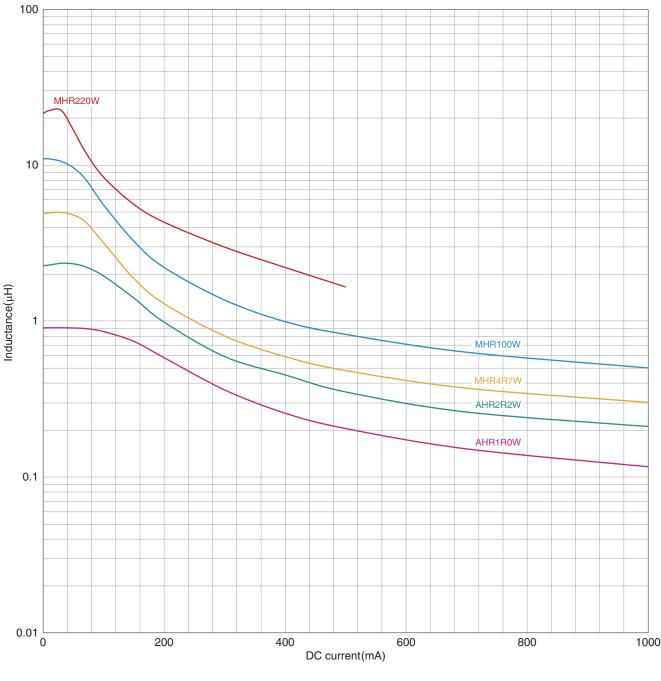


E4991A+16192 A Keysight Technologies

* Equivalent measurement equipment may be used.

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.
20181212

■ INDUCTANCE VS. DC BIAS CHARACTERISTICS



Measurement equipment

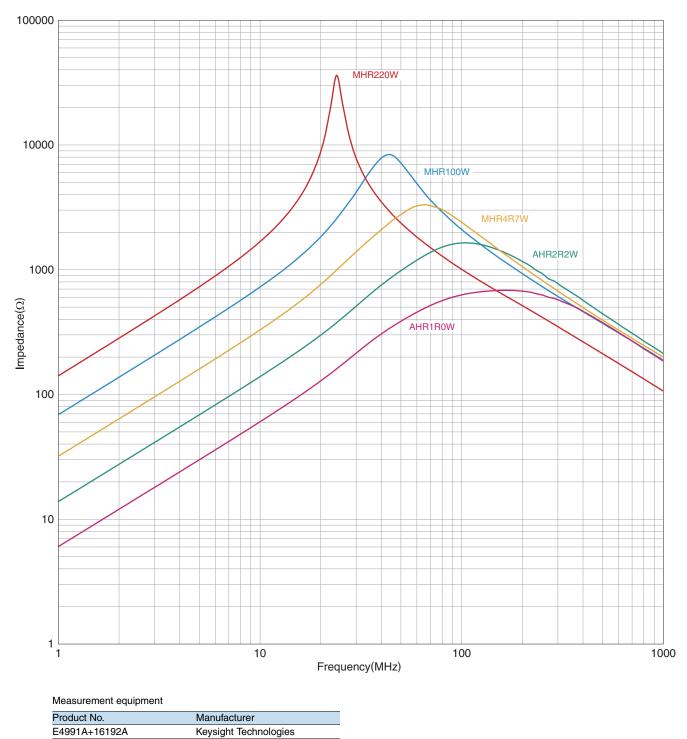
Product No.	Manufacturer
4291B+16200A+16192A	Keysight Technologies

* 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. (3/6) Please note that the contents may change without any prior notice due to reasons such as upgrading.

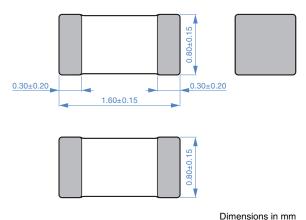
■ IMPEDANCE VS. FREQUENCY CHARACTERISTICS

* Equivalent measurement equipment may be used.

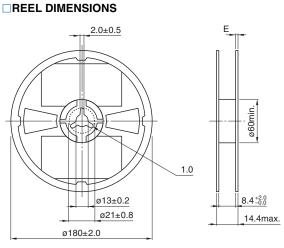


Please be sure to request delivery specifications that provide further details on the features and specifications of the products for proper and safe use. (4/6) Please note that the contents may change without any prior notice due to reasons such as upgrading.

SHAPE & DIMENSIONS

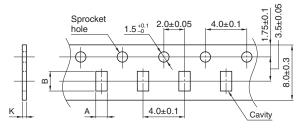


PACKAGING STYLE



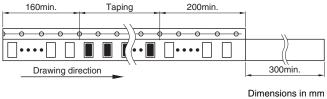
Dimensions in mm

TAPE DIMENSIONS



Dimensions in mm

Туре	А	В	К
KLZ1608-HR	1.1±0.2	1.9±0.2	1.1 max.



PACKAGE QUANTITY

Package quantity 4000 pcs/reel

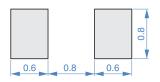
TEMPERATURE RANGE, INDIVIDUAL WEIGHT

Operating	Storage	Individual	
temperature range*	temperature range**	weight	
–55 to +150 °C	–55 to +150 °C	4 mg	

* Operating temperature range includes self-temperature rise.

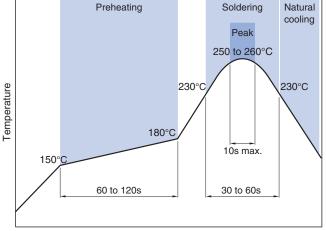
** The storage temperature range is for after the assembly.

RECOMMENDED LAND PATTERN



Dimensions in mm

RECOMMENDED REFLOW PROFILE Soldering Natural



Time

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. 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 12 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 g	as 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 A malfunction may occur due to magnetic interference. 	 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.					
\bigcirc Do not use for a purpose outside of the contents regulated in the deli	very specifications.				
 The products listed on this catalog are intended for use in general or ment, home appliances, amusement equipment, computer equipment ment, industrial robots) under a normal operation and use condition. The products are not designed or warranted to meet the requirements ity require a more stringent level of safety or reliability, or whose failuperson or property. If you intend to use the products in the applications listed below or if set forth in the each catalog, please contact us. 	ent, personal equipment, office equipment, measurement equip- s of the applications listed below, whose performance and/or qual- re, malfunction or trouble could cause serious damage to society,				
 (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 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- 				

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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