



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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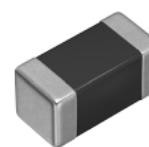


KLZ-HR Series Inductor Sample Kit



Multilayer Inductors for Decoupling Circuits with Soft Termination

TDK's KLZ-HR Series multilayer inductors were designed with innovative soft termination technology to offer high reliability under harsh conditions, even at high temperatures up to 150°C. The KLZ-HR series is qualified to AEC-Q200 and their compact size and robustness makes them ideal for use in demanding automotive applications such as engine control modules (ECUs), various in-vehicle electronic control units (ECUs), and advanced driver assistance systems (ADAS), as well as in a variety of industrial equipment. The external electrodes of the KLZ-HR series feature a conductive resin layer that offers effective protection against board flexure and solder cracks due to mechanical stress during mounting and thermal shock during operation.

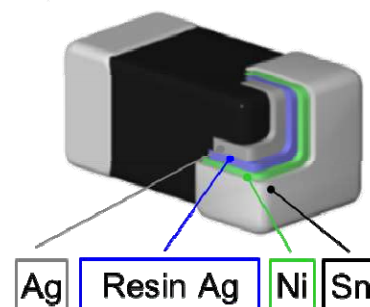


- Multilayer
- Soft Termination
- AEC-Q200

Features

- Excellent DC superimposition characteristics and low DC resistance
- Compatible with wide frequency band noise, from low to high frequency
- Effective protection against board flexure and solder cracks
- Suitable for high operating temperatures up to 150°C
- Qualified to AEC-Q200

Soft Termination Electrode Design



Applications

- Engine control modules (ECMs) and various in-vehicle electronic control units (ECUs)
- Advanced driver assistance systems (ADAS)
- Smart phones, tablet terminals, notebook PCs, camera modules, DSCs, video games
- Portable memory audio devices, navigation systems, PNDs, WLANs, SSDs

Sample Kit Information

Series	Size [mm]	Thickness [mm]	Inductance [μH] ±20%	DC Resistance [Ω] ± 30%	Saturation Current [mA] Max.
KLZ1608-HR	1.6 x 0.8	0.8	1.0 to 22	0.15 to 2.4	55 to 190
KLZ2012-HR	2.0 x 1.25	0.85 1.25	1.0 to 100	0.10 to 3.7	30 to 700

Kit contains 160 pieces total—10 pieces each of 16 values

Digi-Key Part Number: [445-175024-KIT-ND](#)



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Multilayer Inductors for Decoupling Circuits with Soft Termination



Digi-Key Part Number	TDK Part Number	Part Number Description
445-175024-KIT-ND	KLZ1608AHR1R0WTD25	1608, Inductor, 1.0uH, 20%
	KLZ1608AHR2R2WTD25	1608, Inductor, 2.2uH, 20%
	KLZ1608MHR4R7WTD25	1608, Inductor, 4.7uH, 20%
	KLZ1608MHR100WTD25	1608, Inductor, 10uH, 20%
	KLZ1608MHR220WTD25	1608, Inductor, 22uH, 20%
	KLZ2012AHR1R0WTD25	2012, Inductor, 1.0uH, 20%
	KLZ2012AHR2R2WTD25	2012, Inductor, 2.2uH, 20%
	KLZ2012MHR4R7WTD25	2012, Inductor, 4.7uH, 20%
	KLZ2012PHR220WTD25	2012, Inductor, 22uH, 20%
	KLZ2012MHR470WTD25	2012, Inductor, 47uH, 20%
	KLZ2012MHR1R0HTD25	2012, Inductor, 1.0uH, 20%
	KLZ2012MHR2R2HTD25	2012, Inductor, 2.2uH, 20%
	KLZ2012MHR3R3HTD25	2012, Inductor, 3.3uH, 20%
	KLZ2012MHR4R7HTD25	2012, Inductor, 4.7uH, 20%
	KLZ2012MHR100HTD25	2012, Inductor, 10uH, 20%
	KLZ2012NHR101LTD25	2012, Inductor, 100uH, 20%