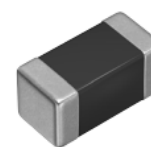


KLZ-HR Series Inductor Sample Kit



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.

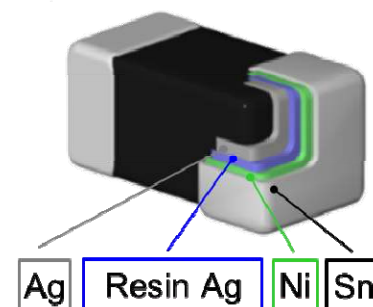


- Multilayer
- Soft Termination
- AEC-Q200

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 [μ H] \pm 20%	DC Resistance [Ω] \pm 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](#)



KLZ-HR Series Inductor Sample Kit

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%