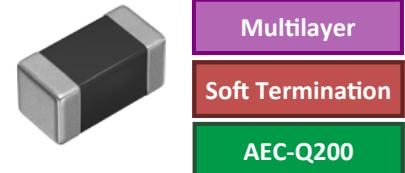


# KLZ-HR Series

## Multilayer Inductors for Decoupling Circuits with Soft Termination

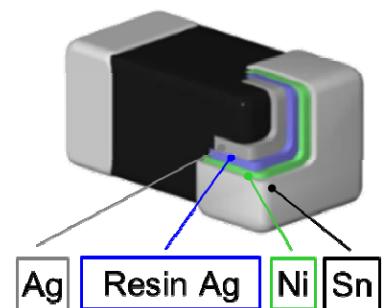
TDK's KLZ-HR Series multilayer inductors were designed with innovative soft termination technology to offer high reliability under harsh conditions, even at high temperatures up to 150°C. The KLZ-HR series is qualified to AEC-Q200 and their compact size and robustness makes them ideal for use in demanding 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.



### 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

### Part Number Information

KLZ	1608	A	HR	1R0	W	T	D25
Series name	LxWxH dimensions (mm)	Product internal code	Specifications (Grade)	Inductance (μH)	Characteristic type	Packaging style	Internal code
1608	1.6x0.8x0.8	A	HR Soft termination	1R0 100	W 10	Large current type T Taping	D25
		M					

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