ESD-SR-H/HL Series Snap-on Cores for Round Cables with High Heat Resistance and Cable Holding Mechanism

Overview

The KEMET ESD-SR-H/HL Series snap-on cores feature high heat resistance and a cable holding

round cable. KEMET's unique core material enables high performance in

Benefits

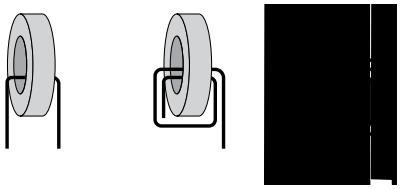
- Wider operational temperature range, applicable to automotive environment: -40°C to +125°C
- Cable holding mechanisms provided
- Unique core material enables high
- Snap-on convenience
- Split construction

Applications

- Automotive (ESP, etc.)
- Information and communication devices
- Audio-visual equipment
- Consumer electronics

Turns and Impedance Characteristics

When the desired performance of an EMI core cannot be obtained with a single pass through the core, the impedance characteristics can be changed with multiple turns.



through the inner hole of the core. Windings on the outside of the core do not count. See Figure 1 for examples of one, two, and three turns.

Adding turns will result in higher impedance while also lowering

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Core Material and Effective Frequency Range

There are two ferrite material options for KEMET EMI Cores: Nickel-Zinc (Ni-Zn) and Manganese-Zinc (Mn-Zn). Each core material has a different

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Zn core material has lower resistance compared to the Ni-Zn; therefore, be sure to provide adequate insulation before use.

effective for the frequencies in the MHz band range such as the FM-band, while the Mn-Zn core

range such as the AM-band. See Figure 3.

the target application with measurements.

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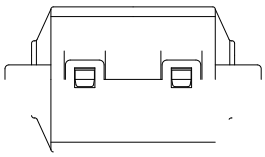
Dimensions – Millimeters



See Table 1 for dimensions

Environmental Compliance

All KEMET EMI cores are RoHS Compliant.

RoHS Compliant

Table 1 – Ratings & Part Number Reference

Part Number	Dimensions (mm)					Weight (g)	Case Color
	A	ø B	C	D	E		
ESD-SR-160(1)	19.5	~ 9	19.5	46.5	38.5	23	Black
ESD-SR-250(1)	30	~ 13	30	53	42	63	Black

(1) To complete KEMET part number, insert H for -40°C to +100°C type, or HL for -40°C to +125°C type.

Impedance vs. Frequency