

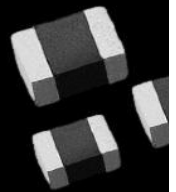


SMD WOUND CHIP INDUCTOR

HR 1596 1608/2012/2016/2518 Series

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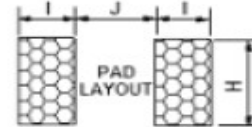
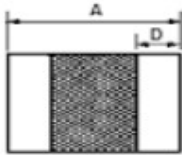
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Applications:

- DC/DC converter for CPU .
- LCD displays, HDDs, etc.
- Thin types on-board power supply module for exchanger.
- Saturation Current (I_{sat}): The current will cause L to drop approximately 30% typical.
- Temperature Rise Current (I_{rms}): The current will cause the temperature coil rise approximately $\Delta t = 40^{\circ}\text{C}$
- Operating temperature: -40°C to $+105^{\circ}\text{C}$
- All parts meet ROHS compliance

Shape and Dimensions



MODEL	A	B	C	D	H	I	J
HR 1596 1608	1.6±0.2	0.8±0.2	0.80±0.2	0.35±0.2	1.0	0.55	0.70
HR 1596 2012	2.0±0.2	1.25±0.2	1.25±0.2	0.5±0.2	1.45	0.70	0.80
HR 1596 2016	2.0±0.2	1.60±0.2	1.60±0.2	0.5±0.2	1.80	0.70	0.80
HR 1596 2518	2.5±0.2	1.80±0.2	1.80±0.2	0.5±0.2	2.00	0.80	0.80

• All measures are in mm.

- Wire wound SMD inductors.
- Low loss realized with low DCR.
- Shielded construction.
- Referenced ambient at 20°C .
- Test Condition : 1MHz, 1.0V_{rms}.
- I_{sat}(Typ) : DC current (a) that will cause L₀ to drop approximately 30 %.
- I_{sat}(Max) : DC current (a) that will cause L₀ to drop 30 % max.
- I_{rms}(Typ) : DC current (a) that will cause an approximate ΔT of 40°C .
- I_{rms}(Max) : DC current (a) that will cause an ΔT of 40°C max.
- SMD 2520 / 3225 / 3225 are low RDC.

Product Identification

HR 1596

•(1)

.2012

•(2)

1R0

•(3)

M

•(4)

- (1) Series: ultra High Power Inductors.
- (2) Dimensions: Style 2012
- (3) Inductance: 1.0uH(1R0) for 10uH.
- (4) Inductance tolerance:M:±20%.