

Power Inductor WE-HCC [Ferrite] 8x8x7; 10x10x9; 12x12x10 mm



Characteristics:

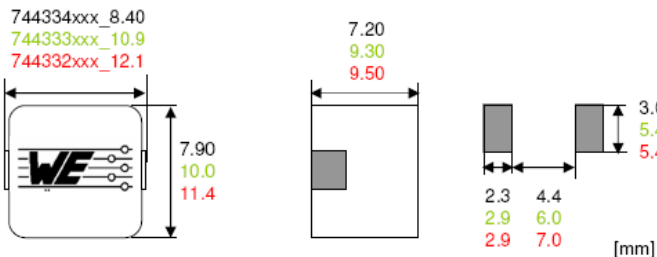
- Case size: 8x8x7mm
10x10x9mm
12x12x10mm
- Frequency Range: up to 5 MHz
- Operating Temperature: up to 125°C
- Inductance Range: 0.22uH – 10uH
- Current Rating: up to 27.0A
- High Saturation Current: up to 60.0A
- Low DCR: 0.53 – 14.4mΩ
- Magnetically Shielded
- Excellent Saturation Characteristics
- Reflow Soldering

Applications:

- Graphic Cards
- Power PC's
- Industrial Computers
- Motherboards
- Polyphase Switching Regulators
- High Current Applications
- Filterchoke for DC/DC Converter
- Filterchoke for Motor Electronics

Order Code	Size [mm]	Inductance ⁽¹⁾ ±15% [uH]	DCR ±10% [mΩ]	Isat. ⁽²⁾ [A]	Irms. ⁽³⁾ [A]	SRF [MHz]
7443340030	8.0x8.0x7.0	0.30	1.40	36.0	20.5	272
7443340047	8.0x8.0x7.0	0.47	1.72	32.0	19.0	232
7443340068	8.0x8.0x7.0	0.68	1.72	23.5	19.0	181
7443340100	8.0x8.0x7.0	1.00	2.95	24.0	17.0	147
7443340150	8.0x8.0x7.0	1.50	4.40	18.5	16.5	120
7443340220	8.0x8.0x7.0	2.20	4.40	15.0	16.5	97
7443340330	8.0x8.0x7.0	3.30	6.50	11.0	14.0	81
7443330022	10x10x9.0	0.22	0.60	60.0	21.5	300
7443330033	10x10x9.0	0.33	0.60	55.0	21.5	250
7443330047	10x10x9.0	0.47	0.80	47.0	20.5	160
7443330068	10x10x9.0	0.68	0.80	38.0	20.5	140
7443330082	10x10x9.0	0.82	1.35	36.0	20.0	120
7443330100	10x10x9.0	1.00	1.35	32.0	20.0	100
7443330150	10x10x9.0	1.50	2.50	27.0	18.0	78
7443330220	10x10x9.0	2.20	3.70	22.0	16.5	80
7443330330	10x10x9.0	3.30	5.04	18.0	14.0	51
7443330470	10x10x9.0	4.70	8.20	15.0	13.0	49
7443330680	10x10x9.0	6.80	13.2	11.0	11.5	40
7443330820	10x10x9.0	8.20	13.2	8.00	11.5	36
7443331000	10x10x9.0	10.0	20.7	6.50	9.00	35
7443320022	12x12x10	0.22	0.53	60.0	27.0	280
7443320033	12x12x10	0.33	0.53	55.0	27.0	214
7443320047	12x12x10	0.47	0.72	48.0	26.0	138
7443320068	12x12x10	0.68	0.72	38.0	26.0	108
7443320082	12x12x10	0.82	1.17	36.0	24.0	99
7443320100	12x12x10	1.00	1.17	32.0	24.0	96
7443320150	12x12x10	1.50	2.10	27.0	19.5	92
7443320220	12x12x10	2.20	3.05	23.0	18.0	64
7443320330	12x12x10	3.30	4.40	17.0	17.0	44
7443320470	12x12x10	4.70	6.35	17.0	15.5	43
7443320680	12x12x10	6.80	8.98	13.0	13.0	42
7443320820	12x12x10	8.20	9.90	12.0	13.0	34
7443321000	12x12x10	10.0	14.4	10.0	9.00	29

Please download full specification/data sheet @ www.we-online.com



Notes:

- ¹ Inductance value measured at 100KHz; [10mA]
- ² I_{SAT} is defined due a drop off of 30% of the initial inductance value [L₀]
- ³ I_{IRMS} is defined due DC Current which will cause a temperature rise of 50K on component surface (no heat sink)
- ⁴ All electrical specifications based on 20°C
- ⁵ It is recommended that the temperature of the part does not exceed more then 125°C under worst case operating conditions. Temperature of the part should be verified in the final application.

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This electronic component has been designed and developed for usage in general electronic equipment. Before incorporating this component into any equipment where higher safety and reliability is especially required or if there is the possibility of direct damage or injury to human body, for example in the range of aerospace, aviation, nuclear control, submarine, transportation, (automotive control, train control, ship control), transportation signal, disaster prevention, medical, public information network etc, Würth Elektronik eiSos GmbH have to be informed before the design-in stage. In addition, sufficient reliability evaluation checks for safety must be performed on every electronic component which is used in electrical circuits that require high safety and reliability functions or performance.