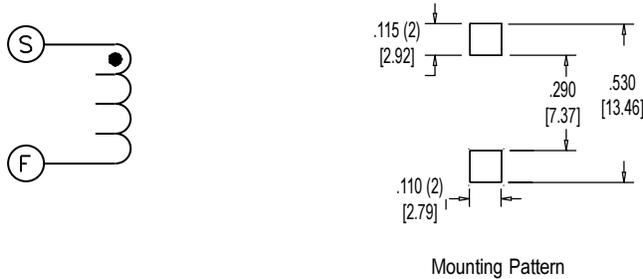
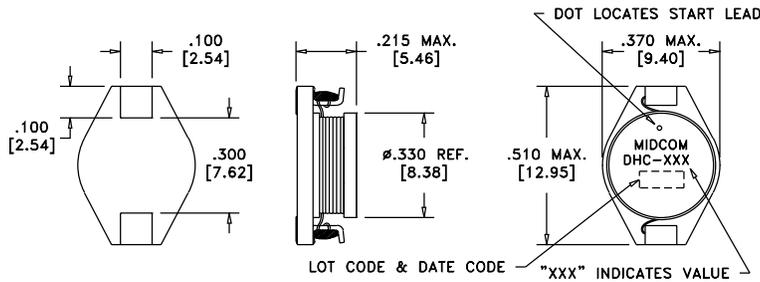


Surface Mount Drum Core Power Inductors: DHC-5121



Features

- Economical, high current, SMD power inductors
- Bifilar wound for high frequency response
- Operation to 1 MHz
- Inductance range: 0.33 uH to 6.8 uH
- Saturating current to 19.4A(dc) and continuous current to 17.0A(dc)
- DC Resistances as low as .0011 Ohm
- High energy storage capability
- Flat top for pick and place operations
- Tape and reel packaging for automatic handling

Applications

- Same package size and footprint as DUS-5121 and DSS-5121 series
- DC/DC Converters, high efficiency, high frequency applications
- Second stage filters

Environmental Specifications

- Operating temperature range: -40°C to +85°C
- Storage temperature range: -50° to +125°C

Packaging

- Parts are packaged in 24 mm embossed carrier tape per EIA-481-2
- DHC-5121 is packaged 1,000 pieces per 13" reel

Part Number	Inductance uH +/- 20%	(Note 1) OCL uH +/- 20%	(Note 2) DCR max (ohms max)	(Note 3) Isat (Adc)	(Note 4) Icont (Adc)
DHC-5121-R33R	0.33	0.313	0.0016	19.4	17.0
DHC-5121-R56R	0.56	0.576	0.0027	15.0	13.0
DHC-5121-1R0R	1.00	1.010	0.0040	11.1	11.0
DHC-5121-1R5R	1.50	1.500	0.0061	9.1	9.0
DHC-5121-2R2R	2.20	2.030	0.0072	7.0	8.0
DHC-5121-2R7R	2.70	2.730	0.0106	6.8	6.8
DHC-5121-3R3R	3.30	3.400	0.0120	6.1	6.1
DHC-5121-4R7R	4.70	4.420	0.0168	5.1	5.1
DHC-5121-5R3R	5.30	5.260	0.0186	4.8	4.8
DHC-5121-6R8R	6.80	6.590	0.0259	4.3	4.3

NOTES:

- 1 Open circuit inductance test at 100KHz, 0.1 Vrms, 0.0Adc
- 2 DCR limits at 20°C
- 3 Saturating DC current for approximately 20% rolloff from initial inductance
- 4 Continuous DC current for approximate temperature rise of 40°C from a 25°C ambient