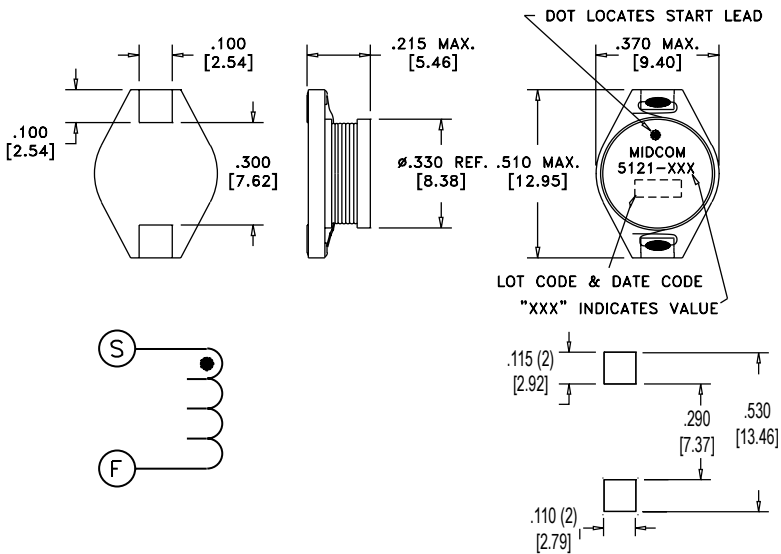


## Surface Mount Drum Core Power Inductors: DUS-5121 Series



### Features

- Economical, reliable SMD inductors
- Inductance range: 1.0 uH to 1000 uH
- Excellent current rating in a low-profile package
- High energy storage and extremely low resistance
- Excellent saturating (to 9A) and continuous current capabilities (to 6.8A)
- Designed for pick and place operations
- Compatible with solder reflow processes to 240°C

### Applications

- Industry standard, medium current inductors for DC/DC converter supplies
- Wide inductance range with medium current for high-frequency, medium and low voltage supplies
- Inductors for DC/DC conversion circuits in notebook computer, peripheral, cellular phone, process control, factory automation and test industries
- Useful in battery-powered and low voltage converters
- Same package size and footprint as DSS-5121 and DHC 5121 series

### 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
- DUS-5121 is packaged 1,000 pieces per 13" reel

Part Number	(Note 1) Inductance uH +/- 20%	(Note 2) DCR (ohms max)	(Note 3) Isat (Adc)	(Note 4) Icont (Adc)
DUS-5121-1R0R	1.0	0.009	9.00	6.80
DUS-5121-1R5R	1.5	0.010	8.00	6.40
DUS-5121-2R2R	2.2	0.012	7.00	6.10
DUS-5121-3R3R	3.3	0.015	6.40	5.40
DUS-5121-4R7R	4.7	0.018	5.40	4.80
DUS-5121-6R8R	6.8	0.027	4.60	4.40
DUS-5121-100R	10.0	0.038	3.80	3.90
DUS-5121-150R	15.0	0.046	3.00	3.10
DUS-5121-220R	22.0	0.085	2.60	2.70
DUS-5121-330R	33.0	0.100	2.00	2.10
DUS-5121-470R	47.0	0.140	1.60	1.80
DUS-5121-680R	68.0	0.200	1.40	1.50
DUS-5121-101R	100.0	0.280	1.20	1.30
DUS-5121-151R	150.0	0.400	1.00	1.00
DUS-5121-221R	220.0	0.610	0.80	0.80
DUS-5121-331R	330.0	1.020	0.60	0.60
DUS-5121-471R	470.0	1.270	0.50	0.50
DUS-5121-681R	680.0	2.020	0.40	0.40
DUS-5121-102R	1000.0	3.000	0.30	0.30

### 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