

**MINIATURE  
AXIAL LEADED  
POWER INDUCTOR  
SERIES DD-ST**

**FEATURES**

- Highest current capacity per volume
- Low price
- Compact size
- Good for auto insertion
- Available with cut & formed leads
- Available on Tape & Reel

**ELECTRICAL CHARACTERISTICS**

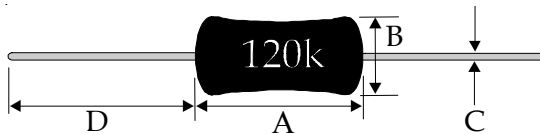
- Inductance range      1.0μH to 1000μH\*
- Tolerance                ±10% over entire range\*
- Rated current          Based on L<sub>o</sub> changes within  
   ±10% typical
- Testing procedures     Inductance measured with  
   Quadtech 1750 LCR Meter at  
   1 KHz and with 100 mVAC

**PHYSICAL CHARACTERISTICS**

- Dielectric strength     500 volts RMS
- Operating temp.        -55°C to +105°C
- Terminal strength      5 lbs pull test per MIL-STD-  
   202E
- Resistance to solvents  Conforms to MIL-STD-202
- Finish                     Covered with shrink tube
- Marking                  Inductance value
- Packaging                 Bulk: 1000 pieces per bag  
   Reel: 2500 pieces per reel

**DIMENSIONS IN INCHES**

- Body length A            0.395" ± 0.03"
- Body diameter B        0.157" ± 0.03"
- Lead wire C              22 AWG/TCW
- Lead length D           1.00" minimum



**SPECIFICATIONS**

Part Number	L (μH)	DCR Max (Ω)	Rated Current (Amp)	Saturation Current (Amp)
DD-1R0K-ST	1.0	0.025	4.0	7.5
DD-1R2K-ST	1.2	0.025	4.0	7.5
DD-1R5K-ST	1.5	0.028	4.0	7.5
DD-1R8K-ST	1.8	0.030	4.0	7.5
DD-2R2K-ST	2.2	0.033	4.0	6.1
DD-2R7K-ST	2.7	0.035	4.0	5.0
DD-3R3K-ST	3.3	0.040	3.0	4.7
DD-3R9K-ST	3.9	0.045	3.0	4.5
DD-4R7K-ST	4.7	0.050	3.0	4.5
DD-5R6K-ST	5.6	0.058	3.0	4.5
DD-6R8K-ST	6.8	0.060	3.0	3.5
DD-8R2K-ST	8.2	0.065	2.0	3.0
DD-100K-ST	10.0	0.085	2.0	3.0
DD-120K-ST	12	0.09	1.0	2.5
DD-150K-ST	15	0.10	1.0	2.5
DD-180K-ST	18	0.12	1.0	2.0
DD-220K-ST	22	0.15	1.0	2.0
DD-250K-ST	25	0.15	1.0	2.0
DD-270K-ST	27	0.17	1.0	1.7
DD-330K-ST	33	0.19	1.0	1.5
DD-390K-ST	39	0.21	1.0	1.5
DD-470K-ST	47	0.23	1.0	1.3
DD-560K-ST	56	0.38	0.6	1.2
DD-680K-ST	68	0.42	0.6	1.2
DD-820K-ST	82	0.45	0.6	0.85
DD-101K-ST	100	0.80	0.6	0.80
DD-121K-ST	120	1.10	0.50	0.70
DD-151K-ST	150	1.10	0.50	0.70
DD-181K-ST	180	1.25	0.40	0.65
DD-221K-ST	220	1.30	0.40	0.60
DD-251K-ST	250	1.45	0.40	0.56
DD-271K-ST	270	1.95	0.30	0.50
DD-331K-ST	330	2.10	0.30	0.50
DD-391K-ST	390	2.25	0.30	0.42
DD-471K-ST	470	2.50	0.20	0.36
DD-561K-ST	560	3.10	0.20	0.35
DD-681K-ST	680	4.60	0.20	0.31
DD-821K-ST	820	5.25	0.15	0.30
DD-102K-ST	1000	6.00	0.15	0.25

\* NOTE: Other inductance values up to 10,000μH and special tolerances are available by special order.