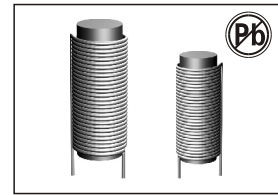


# THROUGH-HOLE RADIAL ROD CORE POWER INDUCTOR

## RCH-110A&B SERIES



### FEATURES:

- High Saturation Material
- Polyolefin Shrink Tubing
- Low DC Resistance
- High Reliability Low cost

### OPTIONS:

- Bulk Packaging is standard
- Custom Design Available

### COMMON APPLICATIONS:

- Switching Regulators
- RFI Suppression Filters
- SCR and TRIAC Controls
- Automotive Systems

### STANDARD SPECIFICATIONS:

Part Number RCH-110A&B	L ( $\mu$ H)	IDC (A)	RDC ( $\Omega$ Max)	A Max	B Max	C $\pm 0.015/0.38$	D $\pm 0.004/0.10$
RCH-110A-1R0L-25	1	25	0.002	0.60/15.2	0.68/17.3	0.42/10.7	0.068/1.73
RCH-110A-1R0L-10	1	10	0.002	0.50/12.7	0.75/19.1	0.42/10.7	0.054/1.37
RCH-110A-3R3L-10	3.3	10	0.005	0.5/12.7	1.0/25.4	0.42/10.7	0.054/1.37
RCH-110A-4R7L-03	4.7	3	0.021	0.51/13.0	0.75/19.1	0.42/10.7	0.035/0.89
RCH-110A-4R7L-05	4.7	5	0.012	0.50/12.7	0.75/19.1	0.42/10.7	0.042/1.07
RCH-110A-4R7L-10	4.7	10	0.012	0.50/12.7	1.0/25.4	0.42/10.7	0.054/1.37
RCH-110A-4R7L-20	4.7	20	0.004	0.53/13.5	1.2/30.5	0.42/10.7	0.068/1.73
RCH-110A-100K-03	10	3	0.023	0.50/12.7	0.75/19.1	0.42/10.7	0.035/0.89
RCH-110A-100K-05	10	5	0.017	0.50/12.7	0.75/19.1	0.42/10.7	0.042/1.07
RCH-110A-100K-10	10	10	0.015	0.52/13.2	1.0/25.4	0.42/10.7	0.054/1.37
RCH-110A-100K-20	10	20	0.006	0.75/19.1	1.8/45.7	0.60/15.2	0.075/1.91
RCH-110A-150K-03	15	3	0.025	0.50/12.7	1.0/25.4	0.42/10.7	0.035/0.89
RCH-110A-150K-10	15	10	0.020	0.52/13.2	1.0/25.4	0.42/10.7	0.054/1.37
RCH-110A-220K-03	22	3	0.035	0.50/12.7	1.0/25.4	0.42/10.7	0.035/0.89
RCH-110A-220K-05	22	5	0.023	0.50/12.7	1.0/25.4	0.42/10.7	0.042/1.07
RCH-110A-220K-10	22	10	0.015	0.66/16.8	1.3/33.0	0.42/10.7	0.060/1.52
RCH-110A-270K-05	27	5	0.024	0.50/12.7	1.0/25.4	0.49/12.5	0.042/1.07
RCH-110A-330K-12	33	12	0.017	0.70/17.8	1.3/33.0	0.55/14.0	0.060/1.52
RCH-110A-470K-03	47	3	0.050	0.55/14.0	1.0/25.4	0.42/10.7	0.035/0.89
RCH-110A-470K-05	47	5	0.035	0.65/16.5	1.1/28.0	0.70/17.8	0.042/1.07
RCH-110A-470K-10	47	10	0.022	0.85/21.8	1.3/33.0	0.70/17.8	0.060/1.52
RCH-110A-820K-03	82	3	0.110	0.50/12.7	0.65/16.5	0.375/9.5	0.028/0.71
RCH-110A-101K-01	100	1	0.190	0.40/10.2	0.90/22.9	0.30/7.6	0.020/0.51
RCH-110A-101K-03	100	3	0.072	0.55/14.0	1.2/30.5	0.70/17.8	0.035/0.89
RCH-110A-101K-05	100	5	0.055	0.65/16.5	1.3/33.0	0.70/17.8	0.042/1.07
RCH-110A-151K-03	150	3	0.140	0.60/15.2	1.2/30.5	0.43/10.9	0.028/0.71
RCH-110A-151K-05	150	5	0.065	0.65/16.5	1.3/33.0	0.70/17.8	0.042/1.07
RCH-110A-181K-05	180	5	0.110	0.65/16.5	1.3/33.0	0.70/17.8	0.042/1.07
RCH-110A-221K-03	220	3	0.210	0.55/14.0	1.2/30.5	0.42/10.7	0.025/0.64
RCH-110A-271K-04	270	4	0.250	0.95/24	0.72/18.3	0.71/18	0.030/0.76
RCH-110A-271K-10	270	10	0.160	1.1/28	1.0/25.4	0.72/18.3	0.038/0.97
RCH-110A-391K-03	390	3	0.250	1.1/28	1.0/25.4	0.72/18.3	0.035/0.89
RCH-110A-391K-05	390	5	0.190	1.1/28	1.0/25.4	0.72/18.3	0.038/0.97

Note: 1. K=  $\pm 10\%$ , M=  $\pm 20\%$ , N=  $\pm 30\%$

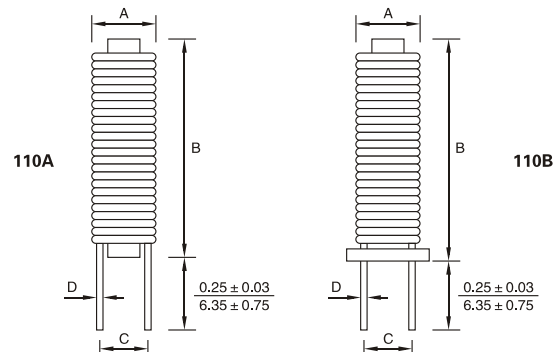
### TECHNICAL INFORMATION:

- Testing: (Equivalent acceptable) Inductance: HP4284A
- RDC: QuadTech 1880 Milliohm meter
- DC current is decreased 10% against its initial value
- Operating temperature:  $-40^{\circ}\text{C}$  to  $+105^{\circ}\text{C}$
- Storage Temperature:  $-40^{\circ}\text{C}$  to  $+105^{\circ}\text{C}$
- Solder methods: Vapor Phase, Infrared Reflow
- Resistance to soldering heat:  $260^{\circ}\text{C}$  for 10 seconds
- Solvent resistance: Conforms to MIL-STD-202E
- Marking: Inductance & Tolerance

Note: All specifications subject to change without notice.

Note: All specifications subject to change without notice.

### PHYSICAL CHARACTERISTICS:



All Dimension in inches/mm