



Features and Benefits

Our **RF Inductors**, available in surface mount, axial-leaded, and radial-leaded configurations, are designed to provide optimal performance in high frequency analog circuits and signal processing in applications such as RFID, test equipment, GPS's, radar, Wi-Fi, and satellite radios. Rugged, epoxy molded construction offers durability and moisture resistance in harsh environments. Tolerances down to +/-1% of nominal inductance, and shielded offerings (minimizing coupling to less than 2%) allow tighter assembly on valuable circuit board real estate. Standard operating temperature ranges are per MIL specs, -55°C to +125°C. Custom designs to meet any application specific requirements, and space level up-screening to MIL-STD-981C Group A and B are always available.

All API Delevan inductors are offered with termination options in RoHS compliant Tin-Silver-Copper (Sn96.5Ag3.0Cu0.5) over Copper (Cu), or Tin-Lead (Sn63/Pb37) over Copper (Cu) to support military applications.



Product Applications

- Circuit Tuning
- Impedance Matching
- High and low-pass filtering
- RF Chokes
- Power Supplies
- Test & Measurement Equipment
- Switching Systems
- High Power Antenna Systems

Market Applications

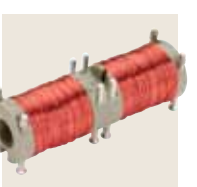
- Industrial
- Military
- Medical
- Avionics
- Aerospace
- Telecomm
- Transportation
- Down hole & Sub-Sea Oil Industry
- Automotive
- Commercial

API Delevan Product Line



MILITARY PRODUCTS:

- Only qualified manufacturer to DSCC mil Spec MIL-PRF-39010/01 through /10, "R" Failure Rate Level
- Other DSCC mil spec approvals:
 - MIL-PRF-15305, 25 MIL Spec qualifications
 - MIL-PRF-83446, 20 MIL Spec qualifications
 - MIL-PRF-27, 3 MIL Spec qualifications
- MIL-STD-202 On-site environmental test lab featuring thermal shock, temperature cycling, moisture resistance, solderability, life test, calibration, real time X-ray, and failure analysis
- MIL-STD-690 Product maintenance testing featuring 15,000,000 hours load/temperature testing every 14 months



CUSTOM PRODUCTS: Our prototype services provide solutions within hours or days, not weeks or months. We provide solutions to meet the demands for extreme product miniaturization, and we are committed to delivering better electrical and mechanical performance than any other manufacturer in the industry. Adhering to daily Kaizen and Lean Manufacturing practices enable us to engineer custom products of the highest quality at the lowest cost possible.



RF INDUCTORS:

- Axial-leaded, radial-leaded, and surface mount configurations
- Rugged epoxy molded construction using UL94V-0 materials
- Encapsulation provide resistance to corrosion in extreme environments
- Shielded configurations result in less than 2% coupling
- Tight tolerances to within +/-1% of nominal inductance
- Surface mount industry standard package sizes, with low-profile and temperature stable versions available
- Inductance ranges from 0.0018µH to 33,000µH
- -55°C to +125°C full Military operating temperature range



POWER INDUCTORS:

- Axial-leaded, radial-leaded, and surface mount configurations
- Inductance ranges from 0.22µH to 100,000µH
- Current ratings from 0.050A to 19.9A
- High temperature designs operating at up to +220°C
- Designed to withstand high levels of mechanical shock and vibration

API Delevan®



API Delevan®

270 Quaker Road, East Aurora, New York 14052

716.652.3600

www.delevan.com

SURFACE MOUNT RF INDUCTORS

Product	Inductance Range	Q Factor Minimum	SRF Minimum	Rated Current	Dimensions Inches (Millimeters)
103 	0.010 uH to 27.0 uH	60 to 22	2700 MHz to 22 MHz	1270 mA DC to 120 mA DC	L= 0.100 ±0.010 (2.54±0.25) W= 0.100±0.010 (2.54±0.25) H= 0.075 Max. (1.91 Max.)
160 	0.010 uH to 560.0 uH	50 to 28	900 MHz to 2.8 MHz	1590 mA DC to 40 mA DC	L= 0.145-0.155 (3.68-3.94) W= 0.115-0.125 (2.92-3.18) H= 0.080 Max. (2.03 Max.)
3094 	0.010 uH to 1000.0 uH	75 to 30	2000 MHz to 1.7 MHz	1000 mA DC to 25 mA DC	L= 0.147-0.163 (3.73-4.14) W= 0.117-0.133 (2.97-3.38) H= 0.140 Max. (3.56 Max.)
4379 	0.10 uH to 10000 uH	120 to 75	600 MHz to 0.7 MHz	1000 mA DC to 21 mA DC	L= 0.147-0.163 (3.73-4.14) W= 0.117-0.133 (2.97-3.38) H= 0.140 Max. (3.56 Max.)
0402 	1.0 nH to 68 nH	25 to 15	12700 MHz to 1620 MHz	1360 mA DC to 100 mA DC	L= 0.050 Max. (1.27 Max.) W= 0.030 Max. (0.76 Max.) H= 0.024 Max. (0.61 Max.)
0603 	1.6 nH to 390 nH	40 to 16	6000 MHz to 900 MHz	700 mA DC to 100 mA DC	L= 0.071 Max. (1.80 Max.) W= 0.045 Max. (1.14 Max.) H= 0.040 Max. (1.02 Max.)
0805 	2.8 nH to 2700 nH	80 to 16	7900 MHz to 50 MHz	800 mA DC to 150 mA DC	L= 0.090 Max. (2.29 Max.) W= 0.068 Max. (1.73 Max.) H= 0.060 Max. (1.52 Max.)
4426 	2.5 nH to 43.0 nH	145 to 100	>3 GHz to 1.5 GHz	3.0 Amps DC to 3.0 Amps DC	L= 0.145 Max. (3.68 Max.) L= 0.270 Max. (6.86 Max.) W= 0.120 Max. (3.50 Max.) H= 0.125 Max. (3.18 Max.) (Two Sizes Available)
4726 	22 nH to 150 nH	140 to 95	3.0 GHz to 1.0 GHz	3.0 Amps DC to 3.0 Amps DC	L= 0.220 Max. (5.588 Max.) W= 0.175 Max. (4.445 Max.) H= 0.165 Max. (4.191 Max.)
5526 	90 nH to 538 nH	95 to 87	1140 MHz to 490 MHz	3.5 Amps DC to 2.0 Amps DC	L= 0.420 Max. (10.67 Max.) W= 0.250 Max. (6.35 Max.) H= 0.235 Max. (5.97 Max.)

Product	Inductance Range	Q Factor Minimum	SRF Minimum	Rated Current	Dimensions Inches (Millimeters)
S1008 	0.10 uH to 47 uH	40 to 30	383 MHz to 8 MHz	1120 mA DC to 110 mA DC	L= 0.095-0.115 (2.41-2.92) W= 0.085-0.105 (2.16-2.66) H= 0.075-0.095 (1.91-2.41)
4302 	0.12 uH to 27.0 uH	40 to 20	400 MHz to 10 MHz	1075 mA DC to 105 mA DC	L= 0.095-0.115 (2.41-2.92) W= 0.085-0.105 (2.16-2.66) H= 0.075-0.095 (1.91-2.41)
S1210 	0.10 uH to 100.0 uH	40 to 40	375 MHz to 8 MHz	1131 mA DC to 127 mA DC	L= 0.118-0.138 (3.00-3.51) W= 0.085-0.105 (2.16-2.66) H= 0.081-0.101 (2.06-2.57)
4232 	0.10 uH to 47.0 uH	30 to 10	250 MHz to 10 MHz	519 mA DC to 135 mA DC	L= 0.118-0.138 (3.00-3.51) W= 0.085-0.105 (2.16-2.67) H= 0.081-0.101 (2.06-2.57)
1330 	0.10 uH to 1000.0 uH	55 to 25	680 MHz to 3.4 MHz	1380 mA DC to 28 mA DC	L= 0.300-0.325 (7.62-8.26) W= 0.105-0.125 (2.67-3.18) H= 0.125-0.145 (3.18-3.68)
1331 	0.10 uH to 560.0 uH	50 to 31	490 MHz to 7.0 MHz	670 mA DC to 40 mA DC	L= 0.300-0.325 (7.62-8.26) W= 0.105-0.125 (2.67-3.18) H= 0.125-0.145 (3.18-3.68)
S1812 	0.10 uH to 1000 uH	50 to 40	460 MHz to 2.0 MHz	1490 mA DC to 60 mA DC	L= 0.166-0.190 (4.2-4.8) W= 0.118-0.134 (3.0-3.4) H= 0.118-0.134 (3.0-3.4)
2510 	0.10 uH to 1000 uH	35 to 15	640 MHz to 2.4 MHz	865 mA DC to 20 mA DC	L= 0.235-0.255 (5.97-6.48) W= 0.085-0.105 (2.16-2.67) H= 0.090-0.110 (2.29-2.79)
S4924 	0.10 uH to 27000.0 uH	60 to 27	450 MHz to 0.40 MHz	3900 mA DC to 35 mA DC	L= 0.490-0.520 (12.44-13.21) W= 0.230-0.250 (5.84-6.35) H= 0.210-0.230 (5.33-5.84)
5022 	0.15 uH to 1000.0 uH	75 to 33	525 MHz to 2.3 MHz	3500 mA DC to 105 mA DC	L= 0.490-0.520 (12.44-13.21) W= 0.230-0.250 (5.84-6.35) H= 0.210-0.230 (5.33-5.84)

Product	Inductance Range	Q Factor Minimum	SRF Minimum	Rated Current	Dimensions Inches (Millimeters)
0819 	0.10 uH to 1000.0 uH	55 to 25	680 MHz to 3.3 MHz	895 mA DC to 24.5 mA DC	L= 0.200±0.010 (5.08±0.25) D= 0.078±0.008 (1.98±0.20)
1025 	0.10 uH to 1000.0 uH	55 to 25	680 MHz to 3.4 MHz	1380 mA DC to 28 mA DC	L= 0.250±0.010 (6.35±0.25) D= 0.095±0.010 (2.41±0.25)
1537 	0.15 uH to 240.0 uH	75 to 33	525 MHz to 5.9 MHz	2740 mA DC to 115 mA DC	L= 0.375±0.010 (9.53±0.25) D= 0.156±0.010 (3.96±0.25)
1641 	0.10 uH to 1000.0 uH	60 to 40	250 MHz to 3.8 MHz	1830 mA DC to 70 mA DC	L= 0.410±0.020 (10.41±0.51) D= 0.162±0.010 (4.11±0.25)
4307 	1200 uH to 33000 uH	50 to 27	3.0 MHz to 0.40 MHz	115 mA DC to 29 mA DC	L= 0.427-0.447 (10.85-11.35) D= 0.177-0.197 (4.496-5.004)
1840 	0.15 uH to 27.0 uH	65 to 35	510 MHz to 22 MHz	3050 mA DC to 214 mA DC	L= 0.437±0.010 (11.10±0.25) D= 0.187±0.010 (4.75±0.25)
1944 1945 	0.10 uH to 1000 uH	80 to 45	400 MHz to 2.24 MHz	4000 mA DC to 104 mA DC	L= 0.420-0.447 (10.67-11.35) D= 0.168-0.193 (4.27-4.90)
2500 	270 uH to 10000 uH	80 to 60	5.6 MHz to 0.95 MHz	126 mA DC to 48 mA DC	L= 0.440-0.740 (11.18-18.80) D= 0.190-0.240 (4.83-6.10) (Three Sizes Available)
2890 	1.2 uH to 120.0 uH	95 to 40	170 MHz to 10 MHz	2400 mA DC to 219 mA DC	L= 0.900±0.010 (22.86±0.25) D= 0.280±0.010 (7.11±0.25)
4470 	1.0 uH to 10000.0 uH	130 to 65	136 MHz to 0.47 MHz	4000 mA DC to 80 mA DC	L= 0.880-0.910 (22.35-23.11) D= 0.270-0.310 (6.86-7.87)

THROUGH HOLE RF INDUCTORS