

Industry Leadership



Since 1947, API Delevan has collaborated with the Defense Supply Center Columbus (DSCC) and the Defense Logistics Agency (DLA), specifying and qualifying passive electronic components in support of the nation's military and defense programs.

API Delevan, proudly manufacturing in the USA, maintains the industry's most expansive offering of Military Certifications and Military QPL products:

- **MIL-PRF-39010 Established Reliability RF Coils**
 - Approved at "S" Reliability Level for /01, /02, /03, /04, /05, /06, and /08
 - Highest reliability level of any inductor manufacturer
- **MIL-PRF-15305 Axial-leaded Fixed and Variable RF Coils**
 - Approved on over 25 MIL Spec Qualifications (MS Spec Sheets)
- **MIL-PRF-83446 Surface Mount Fixed RF Chip Inductors**
 - Approved on over 40 MIL Spec Qualifications (M83446 Slash Sheets)
- **MIL-PRF-27 Power Inductors**
 - Approved on three MIL Spec Qualifications (M27 Slash Sheets)
- **MIL-STD-981 & EEE-INST-002**
 - Group A and B Space level testing and screening capabilities
- **MIL-STD-202 On-site Environmental Test Lab**
 - Thermal Shock, Temperature Cycling, Moisture Resistance, Solderability, Life Test, Calibration, Real Time X-ray, and Failure Analysis
- **MIL-STD-690 Product Maintenance Testing**
 - 15,000,000 hours (equivalent to over 1,700 years) load/temp testing every 14 months
- **MIL-STD-790 Certified**
 - Qualified Processes for Established Reliability and High Reliability electronic components

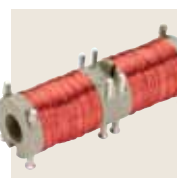


API Delevan Product Line



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:

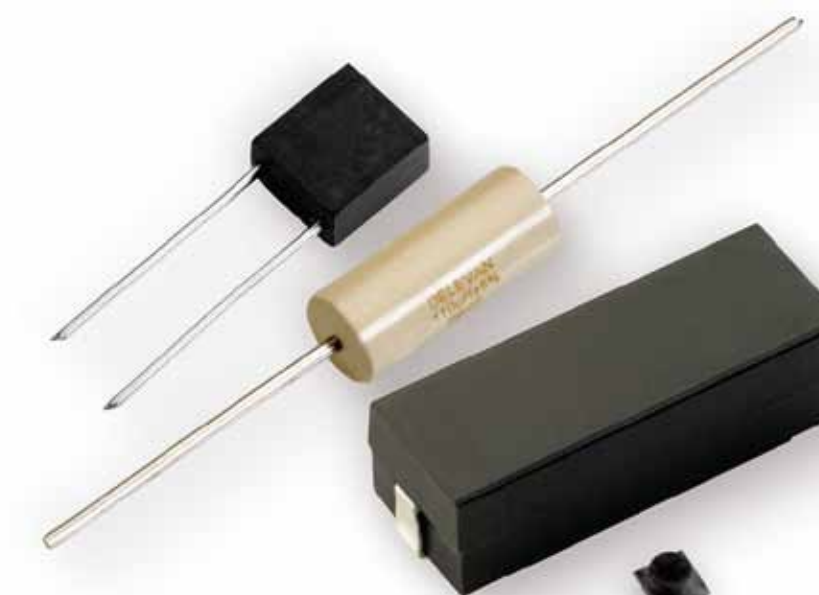
- Axial-leaded, radial-leaded, and surface mount configurations
- Rugged epoxy molded construction using UL94V-0 materials
- Encapsulation provides resistance to corrosion in extreme environments
- Shielded configurations result in less than 2% coupling
- Tight tolerances to within +/-1% of nominal inductance
- 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®













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

270 Quaker Road, East Aurora, New York 14052















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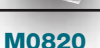










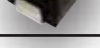


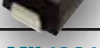


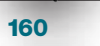
MILITARY PRODUCTS

MIL-PRF-39010	Failure Rate Level	Inductance Range	Q Factor Minimum	SRF Minimum	Rated Current	Dimensions Inches (Millimeters)
 ER1641 M39010/01	S	0.10 uH to 0.82 uH	50 to 40	250 MHz to 180 MHz	1790 mA DC to 370 mA DC	L= 0.410±0.020 (10.41±0.51) D= 0.162±0.010 (4.11±0.25)
 M39010/02	S	0.91 uH to 12.00 uH	50 to 44	140 MHz to 44 MHz	1070 mA DC to 200 mA DC	
 M39010/03	S	15 uH to 1000 uH	60 to 45	49.0 MHz to 3.8 MHz	315 mA DC to 70 mA DC	
 ER1840 M39010/04	S	0.15 uH to 2.70 uH	55 to 30	510 MHz to 120 MHz	2900 mA DC to 460 mA DC	L= 0.437±0.010 (11.10±0.25) D= 0.187±0.010 (4.75±0.25)
 M39010/05	S	3.00 uH to 27.0 uH	65 to 30	70 MHz to 22 MHz	945 mA DC to 205 mA DC	
 ER1537 M39010/06	S	0.15 uH to 4.70 uH	50 to 33	525 MHz to 90 MHz	2450 mA DC to 260 mA DC	L= 0.375±0.010 (9.53±0.25) D= 0.156±0.010 (3.96±0.25)
 M39010/07	R	5.1 uH to 240.0 uH	75 to 45	60 MHz to 5.9 MHz	495 mA DC to 101 mA DC	
 ER1025 M39010/08	S	0.10 uH to 1.00 uH	40 to 25	680 MHz to 230 MHz	1350 mA DC to 385 mA DC	L= 0.250±0.010 (6.35±0.25) D= 0.095±0.010 (2.41±0.25)
 M39010/09	R	1.1 uH to 27.0 uH	50 to 25	150 MHz to 20 MHz	590 mA DC to 135 mA DC	
 M39010/10	R	30.0 uH to 1000 uH	50 to 30	24 MHz to 3.4 MHz	130 mA DC to 28 mA DC	

MIL-PRF-15305	Inductance Range	Q Factor Minimum	SRF Minimum	Rated Current	Dimensions Inches (Millimeters)
 1025 MS75083	0.10 uH to 1.0 uH	40 to 25	680 MHz to 230 MHz	1380 mA DC to 390 mA DC	L= 0.250±0.010 (6.35±0.25) D= 0.095±0.010 (2.41±0.25)
 MS75084	1.2 uH to 27.0 uH	50 to 25	150 MHz to 20 MHz	620 mA DC to 140 mA DC	
 MS75085	33.0 uH to 1000 uH	50 to 30	24.0 MHz to 3.4 MHz	130 mA DC to 28 mA DC	
 1537 MS18130	0.15 uH to 4.70 uH	50 to 33	525 MHz to 90 MHz	2740 mA DC to 294 mA DC	L= 0.375±0.010 (9.53±0.25) D= 0.156±0.010 (3.96±0.25)
 MS14046	5.60 uH to 33.0 uH	75 to 45	60 MHz to 19 MHz	565 mA DC to 185 mA DC	
 MS90538	36.0 uH to 240.0 uH	65 to 50	15.5 MHz to 5.9 MHz	202 mA DC to 115 mA DC	
 1840 MS75008	0.15 uH to 2.70 uH	55 to 35	510 MHz to 120 MHz	3050 mA DC to 525 mA DC	L= 0.437±0.010 (11.10±0.25) D= 0.187±0.010 (4.75±0.25)
 MS75101	3.30 uH to 27.0 uH	65 to 35	70 MHz to 22 MHz	1020 mA DC to 214 mA DC	
 1944 MS21389 (REF)	0.10 uH to 2.20 uH	75 to 45	400 MHz to 132 MHz	4000 mA DC to 610 mA DC	L= 0.420-0.447 (10.67-11.35) D= 0.168-0.193 (4.27-4.90)
 1945 MS21390 (REF)	2.70 uH to 1000 uH	85 to 55	88 MHz to 2.24 MHz	1600 mA DC to 104 mA DC	
 2150 MS90542	0.47 uH to 4.70 uH	65 to 40	300 MHz to 90 MHz	2270 mA DC to 415 mA DC	L= 0.560±0.010 (14.22±0.25) D= 0.220±0.010 (5.59±0.25)
 MS14052	5.60 uH to 39.0 uH	70 to 35	55 MHz to 18 MHz	1040 mA DC to 264 mA DC	
 2500 MS90539	270 uH to 1000 uH	65 to 60	5.6 MHz to 2.8 MHz	126 mA DC to 88 mA DC	L= 0.440±0.010 (11.18±0.25) D= 0.190±0.010 (4.83±0.25)
 MS90540	1100 uH to 3600 uH	70 to 60	2.8 MHz to 1.5 MHz	81 mA DC to 59 mA DC	
 MS90541	3900 uH to 10,000 uH	80 to 80	1.45 MHz to 0.95 MHz	62 mA DC to 48 mA DC	

MIL-PRF-15305	Inductance Range	Q Factor Minimum	SRF Minimum	Rated Current	Dimensions Inches (Millimeters)
 2890 MS91189	1.2 uH to 18.0 uH	60 to 40	170 MHz to 45 MHz	2400 mA DC to 320 mA DC	L= 0.900±0.010 (22.86±0.25) D= 0.280±0.010 (7.11±0.25)
 MS75103	22.0 uH to 120.0 uH	95 to 45	24 MHz to 10 MHz	815 mA DC to 219 mA DC	
 3500 MS75052	47.0 uH to 56.0 uH	18 to 18	13.5 MHz to 13.0 MHz	225 mA DC to 216 mA DC	L= 0.560±0.010 (14.22±0.25) D= 0.250±0.010 (6.35±0.25)
 MS14047	68.0 uH to 150.0 uH	75 to 65	13.0 MHz to 8.3 MHz	210 mA DC to 159 mA DC	
 MS14048	180.0 uH to 390.0 uH	80 to 75	6.0 MHz to 3.9 MHz	171 mA DC to 136 mA DC	
 4470 MS21380 (REF)	1.0 uH to 10,000.0 uH	130 to 60	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)
 0925 MS21426	0.10 uH to 100.0 uH	57 to 36	490 MHz to 10.5 MHz	670 mA DC to 51 mA DC	L= 0.250±0.010 (6.35±0.25) D= 0.095±0.010 (2.41±0.25)
 MS21427	120.0 uH to 560.0 uH	40 to 31	13 MHz to 7 MHz	88 mA DC to 40 mA DC	
 1641 MS75087	0.10 uH to 0.82 uH	51 to 40	250 MHz to 180 MHz	1830 mA DC to 375 mA DC	L= 0.410±0.020 (10.41±0.51) D= 0.162±0.010 (4.11±0.25)
 MS75088	1.0 uH to 12.0 uH	55 to 44	140 MHz to 44 MHz	1090 mA DC to 205 mA DC	
 MS75089	15.0 uH to 1000 uH	60 to 45	49.0 MHz to 3.8 MHz	325 mA DC to 70 mA DC	
 100 MS21367	0.015 uH to 10.0 uH	40 to 32	250 MHz to 40 MHz	492 mA DC to 53 mA DC	L= 0.100±0.010 (2.54±0.25) W= 0.100±0.010 (2.54±0.25) H= 0.065 Max. (1.65 Max.)
 2020 MS21422	0.10 uH to 10.0 uH	70 to 55	450 MHz to 35 MHz	2200 mA DC to 280 mA DC	L= 0.200-0.230 (5.08-5.84) W= 0.190-0.210 (4.83-5.33) H= 0.090-0.110 (2.29-2.79)
 4445 MS21423 (REF)	0.010 uH to 1.000 uH	80 to 60	1000 MHz to 150 MHz	3000 mA DC to 700 mA DC	

MIL-PRF-27	Inductance Range	DCR Max	Rated Current	Dimensions Inches (Millimeters)
 MIL4922 M27/367	0.22 uH to 22000 uH	160 OHMS to 0.008 OHMS	7.00 Amps DC to 0.050 Amps 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)
 MILP1812 M27/368	1.0 uH to 330 uH	15.24 OHMS to 0.113 OHMS	1050 mA DC to 90 mA DC	L= 0.166-0.190 (4.22-4.83) W= 0.118-0.134 (3.00-3.40) H= 0.118-0.134 (3.00-3.40)
 MIL8532 M27/370	1.0 uH to 18000 uH	40.0 OHMS to 0.009 OHMS	6.27 Amps DC to 0.09 Amps DC	L= 0.840-0.880 (21.34-22.35) W= 0.310-0.330 (7.87-8.38) H= 0.266-0.286 (6.76-7.26)

MIL-PRF-83446	Inductance Range	Q Factor Minimum	SRF Minimum	Rated Current	Dimensions Inches (Millimeters)
 103 M83446/04	0.010 uH to 27.0 uH	60 to 22	2700 MHz to 22 MHz	1270 mA DC to 120 mA DC	L/W= 0.100±0.010 (2.54±0.25) H= 0.075 Max. (1.91 Max.)
 M83446/08 (REF)	12.0 uH to 100.0 uH	36 to 30	26.0 MHz to 7.0 MHz	79 mA DC to 28 mA DC	
 3094 M83446/10 (REF)	0.010 uH to 1000 uH	75 to 30	2000.0 MHz to 1.7 MHz	1000 mA DC to 25 mA DC	L= 0.117-0.133 (2.97-3.38) W= 0.147-0.163 (3.73-4.14) H= 0.140 Max. (3.56 Max.)
 M83446/11 (REF)	0.10 uH to 10,000 uH	120 to 75	600 MHz to 0.7 MHz	1000 mA DC to 21 mA DC	
 M0820 M83446/20	0.10 uH to 0.47 uH	25 to 25	640 MHz to 340 MHz	865 mA DC to 405 mA DC	L= 0.230-0.255 (5.84-6.48) W= 0.075-0.095 (1.91-2.41) H= 0.95-0.115 (2.41-2.92)
 M83446/21	0.56 uH to 100 uH	35 to 25	240 MHz to 8.9 MHz	500 mA DC to 47 mA DC	
 M83446/22	120 uH to 1000 uH	15 to 15	8.5 MHz to 2.4 MHz	52 mA DC to 20 mA DC	
 M1330 M83446/23	0.10 uH to 1.00 uH	40 to 25	680 MHz to 230 MHz	1380 mA DC to 390 mA DC	L= 0.300-0.320 (7.62-8.13) W= 0.105-0.125 (2.67-3.18) H= 0.125-0.145 (3.18-3.68)
 M83446/24	1.20 uH to 27.0 uH	55 to 25	150 MHz to 20 MHz	620 mA DC to 140 mA DC	
 M83446/25	33.0 uH to 1000 uH	35 to 30	24 MHz to 3.4 MHz	130 mA DC to 28 mA DC	
 M1331 M83446/26	0.10 uH to 100 uH	50 to 36	490 MHz to 10.5 MHz	670 mA DC to 51 mA DC	L= 0.300-0.320 (7.62-8.13) W= 0.105-0.125 (2.67-3.18) H= 0.125-0.145 (3.18-3.68)
 M83446/27	120 uH to 560 uH	35 to 31	13 MHz to 7 MHz	88 mA DC to 40 mA DC	
 MIL2510 M83446/28	0.10 uH to 0.47 uH	25 to 25	640 MHz to 340 MHz	865 mA DC to 405 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)
 M83446/29	0.56 uH to 100.0 uH	35 to 25	240 MHz to 8.9 MHz	500 mA DC to 47 mA DC	
 M83446/30	120.0 uH to 1000.0 uH	15 to 15	8.5 MHz to 2.4 MHz	52 mA DC to 20 mA DC	
 MIL1330 M83446/31	0.10 uH to 1.00 uH	40 to 25	680 MHz to 230 MHz	1380 mA DC to 390 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)
 M83446/32	1.20 uH to 27.0 uH	55 to 25	150 MHz to 20 MHz	620 mA DC to 140 mA DC	
 M83446/33	33.0 uH to 1000.0 uH	35 to 30	24.0 MHz to 3.4 MHz	130 mA DC to 28 mA DC	
 MIL1331 M83446/34	0.10 uH to 100 uH	50 to 36	490 MHz to 10.5 MHz	670 mA DC to 51 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)
 M83446/35	120 uH to 560 uH	35 to 31	13 MHz to 7 MHz	88 mA DC to 40 mA DC	
 160 M83446/38	0.010 uH to 560 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.)
 MIL1812 M83446/39	0.010 uH to 1000 uH	50 to 25	1000 MHz to 2.5 MHz	1230 mA DC to 55 mA DC	L= 0.166-0.190 (4.22-4.83) W= 0.118-0.134 (3.00-3.40) H= 0.118-0.134 (3.00-3.40)
 M83446/40	0.10 uH to 1000 uH	50 to 40	460 MHz to 2.0 MHz	1490 mA DC to 67 mA DC	