

# SERIES

**9405R & 9406R**  
**9405 & 9406**



## Tunable Variable RF Coils

**Leads** AWG #24 Tinned Copperweld  
**Tuning Torque** 0.1 to 3.5 oz. in.  
**Pin #1** is identified by white dot on 9406 only.  
**Current Rating at 90°C Ambient** 35°C Rise  
**Operating Temperature Range**  
-55°C to +125°C

**Max. Power Dissipation at 90°C** - 0.3 W  
**Weight Max.** (Grams) 4.0

**Units** are electro-magnetically shielded

**Core and Shield Material** Ferrite

### Ordering Information

Vertical Coil = Dash No. prefixed by 9405; Horizontal Coil = Dash No. prefixed by 9406. Additionally – an electrostatic shield for 9405 is available on a custom basis; order as 9415-XX

**9405 Marking** DEC; part number

**9406 Marking** Part number; DEC

Example: 9405R-10

DEC  
9405R-10

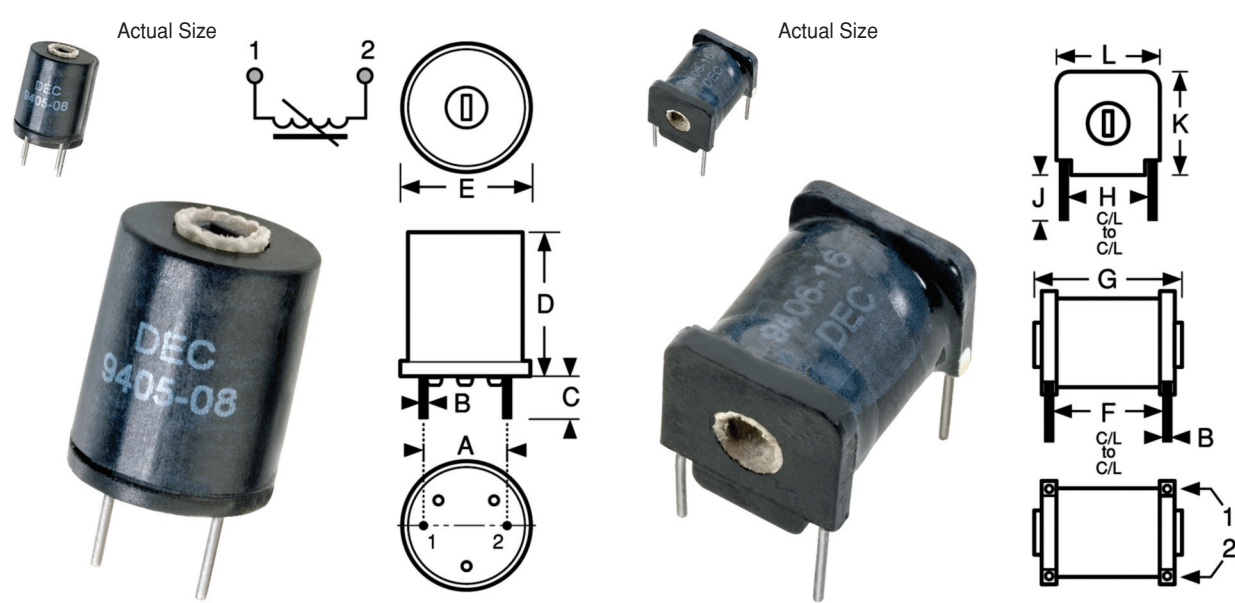
**Packaging** Bulk only

**Made in the U.S.A.**

| RF INDUCTORS                |                            |                            |                            |                      |                    |                      |                                 |                                |       |        |
|-----------------------------|----------------------------|----------------------------|----------------------------|----------------------|--------------------|----------------------|---------------------------------|--------------------------------|-------|--------|
| DASH NUMBER*                | INDUCTANCE (µH)<br>NOMINAL | INDUCTANCE (µH)<br>MINIMUM | INDUCTANCE (µH)<br>MAXIMUM | TEST FREQUENCY (MHz) | Q MINIMUM @ L MAX. | SRF MINIMUM @ L MIN. | DC RESISTANCE (OHMS)<br>MAXIMUM | CURRENT RATING (mA)<br>MAXIMUM |       |        |
| Horizontal<br>— an<br>ustom | -1                         | 0.10                       | 0.080                      | 0.120                | 25.0               | 45                   | 43                              | 250.0                          | 0.030 | 2690.0 |
|                             | -2                         | 0.15                       | 0.120                      | 0.180                | 25.0               | 53                   | 50                              | 198.0                          | 0.035 | 2490.0 |
|                             | -4                         | 0.22                       | 0.154                      | 0.286                | 25.0               | 55                   | 52                              | 195.0                          | 0.056 | 1970.0 |
|                             | -6                         | 0.33                       | 0.231                      | 0.429                | 25.0               | 51                   | 49                              | 142.0                          | 0.060 | 1900.0 |
|                             | -8                         | 0.47                       | 0.329                      | 0.611                | 25.0               | 53                   | 51                              | 110.0                          | 0.064 | 1840.0 |
|                             | -10                        | 0.68                       | 0.476                      | 0.884                | 25.0               | 51                   | 48                              | 130.0                          | 0.073 | 1720.0 |
|                             | -12                        | 1.00                       | 0.700                      | 1.30                 | 25/7.9             | 51                   | 67                              | 95.0                           | 0.600 | 600.0  |
|                             | -14                        | 1.50                       | 1.05                       | 1.95                 | 7.9                | 55                   | 82                              | 76.0                           | 0.620 | 590.0  |
|                             | -16                        | 2.20                       | 1.54                       | 2.86                 | 7.9                | 65                   | 103                             | 57.0                           | 0.720 | 550.0  |
|                             | -18                        | 3.30                       | 2.31                       | 4.29                 | 7.9                | 70                   | 91                              | 39.0                           | 1.05  | 455.0  |
|                             | -20                        | 4.70                       | 3.29                       | 6.11                 | 7.9                | 74                   | 87                              | 37.0                           | 1.15  | 435.0  |
|                             | -22                        | 6.80                       | 4.76                       | 8.84                 | 7.9                | 72                   | 88                              | 27.0                           | 1.30  | 410.0  |
|                             | -24                        | 10.0                       | 7.00                       | 13.0                 | 7.9/2.5            | 72                   | 87                              | 18.0                           | 1.50  | 380.0  |
|                             | -26                        | 15.0                       | 10.5                       | 19.5                 | 2.5                | 66                   | 93                              | 16.0                           | 2.35  | 305.0  |
|                             | -28                        | 22.0                       | 15.4                       | 28.6                 | 2.5                | 74                   | 102                             | 12.0                           | 2.80  | 278.0  |
|                             | -30                        | 33.0                       | 23.1                       | 42.9                 | 2.5                | 83                   | 110                             | 11.0                           | 3.00  | 269.0  |
|                             | -32                        | 47.0                       | 32.9                       | 61.1                 | 2.5                | 76                   | 96                              | 8.0                            | 3.70  | 242.0  |
|                             | -34                        | 68.0                       | 47.6                       | 88.4                 | 2.5                | 70                   | 73                              | 7.0                            | 4.35  | 223.0  |
|                             | -36                        | 100.0                      | 70.0                       | 130.0                | 2.5/0.79           | 65                   | 67                              | 6.5                            | 5.50  | 198.0  |
|                             | -38                        | 150.0                      | 105.0                      | 195.0                | 0.79               | 53                   | 81                              | 4.5                            | 9.20  | 153.0  |
|                             | -40                        | 220.0                      | 154.0                      | 286.0                | 0.79               | 61                   | 83                              | 3.5                            | 9.70  | 149.0  |
|                             | -42                        | 330.0                      | 231.0                      | 429.0                | 0.79               | 42                   | 57                              | 3.2                            | 14.0  | 124.0  |
|                             | -44                        | 470.0                      | 329.0                      | 611.0                | 0.79               | 48                   | 67                              | 3.1                            | 15.0  | 120.0  |
|                             | -46                        | 680.0                      | 476.0                      | 884.0                | 0.79               | 45                   | 57                              | 2.4                            | 20.0  | 104.0  |
| -48                         | 1000.0                     | 700.0                      | 1300.0                     | 0.79/0.25            | 48                 | 52                   | 1.9                             | 24.5                           | 94.0  |        |
| -50                         | 1500.0                     | 1050.0                     | 1950.0                     | 0.25                 | 38                 | 53                   | 1.3                             | 30.0                           | 85.0  |        |
| -52                         | 2200.0                     | 1540.0                     | 2860.0                     | 0.25                 | 42                 | 65                   | 1.2                             | 38.0                           | 75.5  |        |
| -54                         | 3300.0                     | 2310.0                     | 4290.0                     | 0.25                 | 42                 | 57                   | 0.85                            | 45.0                           | 69.5  |        |
| -56                         | 4700.0                     | 3290.0                     | 6110.0                     | 0.25                 | 38                 | 51                   | 0.68                            | 70.0                           | 55.5  |        |
| -58                         | 6800.0                     | 4760.0                     | 8840.0                     | 0.25                 | 38                 | 49                   | 0.60                            | 100.0                          | 46.5  |        |
| -60                         | 10000.0                    | 7000.0                     | 13000.0                    | 0.25/0.079           | 40                 | 40                   | 0.50                            | 115.0                          | 43.5  |        |

\*Complete part # must include series # PLUS the dash #

For surface finish information,  
refer to [www.delevanfinishes.com](http://www.delevanfinishes.com)



| Dimension | A             | B              | C             | D          | E          | F             | G          | H             | J             | K, L       |
|-----------|---------------|----------------|---------------|------------|------------|---------------|------------|---------------|---------------|------------|
| In.       | 0.200 ± 0.010 | 0.020 ± 0.0015 | 0.187 ± 0.020 | 0.500 max. | 0.380 max. | 0.400 ± 0.020 | 0.500 max. | 0.300 ± 0.010 | 0.187 ± 0.020 | 0.375 max. |
| mm        | 5.08 ± 0.25   | 0.508 ± 0.038  | 4.75 ± 0.51   | 12.7 max.  | 9.65 max.  | 10.16 ± 0.51  | 12.7 max.  | 7.62 ± 0.25   | 4.75 ± 0.51   | 9.53 max.  |