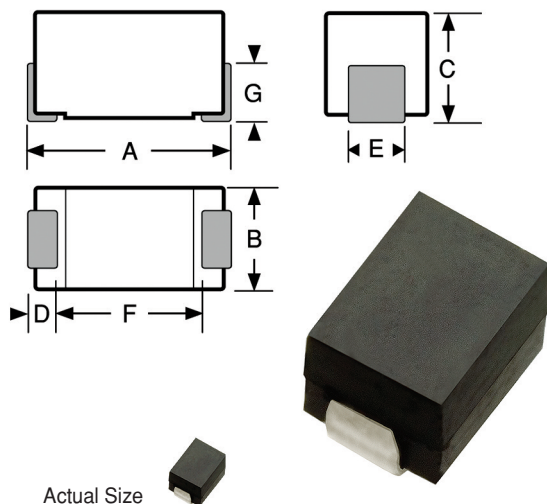


**SERIES****MIL1330****Unshielded Surface Mount Inductors****Military QPL Approval**

M83446/31 Phenolic Core

M83446/32 Iron Core

M83446/33 Ferrite Core

† **Ordering Note** Military parts must be ordered to the M83446/ part number

**Physical Parameters**

|   | Inches            | Millimeters      |
|---|-------------------|------------------|
| A | 0.300 to 0.325    | 7.62 to 8.26     |
| B | 0.105 to 0.125    | 2.67 to 3.18     |
| C | 0.125 to 0.145    | 3.18 to 3.68     |
| D | 0.020 Min.        | 0.508 Min.       |
| E | 0.040 to 0.060    | 1.02 to 1.52     |
| F | 0.190 (Ref. only) | 4.83 (Ref. only) |
| G | 0.070 (Ref. only) | 1.78 (Ref. only) |

**Weight Max** (Grams) 0.30**Operating Temperature Range**

Phenolic: -55°C to +125°C

Iron and Ferrite: -55°C to +105°C

**Current Rating at 90°C Ambient**

Phenolic: 35°C Rise

Iron and Ferrite: 15°C Rise

**Maximum Power Dissipation at 90°C Ambient**

Phenolic: 0.210 W

Iron: 0.090 W

Ferrite: 0.073 W

**Marking** API/SMD; inductance with units and tolerance; date code (YYWWL) followed by an M.

Example: 1330-42K

API/SMD

8.2uH±10%

0601A M

**Packaging** Tape & reel (16mm): 7" reel, 500 pieces max.; 13" reel, 2200 pieces max.

**Made In the U.S.A.**

| DASH NUMBER*                                    | MIL DASH # | INDUCTANCE (uH) ±10% | TEST FREQUENCY (MHz) | Q MINIMUM | SRF MINIMUM (MHz) | DC RESISTANCE MAXIMUM (OHMS) | CURRENT RATING MAXIMUM (mA) |
|-------------------------------------------------|------------|----------------------|----------------------|-----------|-------------------|------------------------------|-----------------------------|
| <b>M83446/31 – SERIES MIL1330 PHENOLIC CORE</b> |            |                      |                      |           |                   |                              |                             |
| -94K                                            | 01F        | 0.10                 | 40                   | 25.0      | 680.0             | 0.08                         | 1380                        |
| -96K                                            | 02F        | 0.12                 | 40                   | 25.0      | 640.0             | 0.09                         | 1300                        |
| -00K                                            | 03F        | 0.15                 | 38                   | 25.0      | 600.0             | 0.10                         | 1230                        |
| -02K                                            | 04F        | 0.18                 | 35                   | 25.0      | 550.0             | 0.12                         | 1120                        |
| -04K                                            | 05F        | 0.22                 | 33                   | 25.0      | 510.0             | 0.14                         | 1040                        |
| -06K                                            | 06F        | 0.27                 | 33                   | 25.0      | 430.0             | 0.16                         | 975                         |
| -08K                                            | 07F        | 0.33                 | 30                   | 25.0      | 410.0             | 0.22                         | 830                         |
| -10K                                            | 08F        | 0.39                 | 30                   | 25.0      | 365.0             | 0.30                         | 710                         |
| -12K                                            | 09F        | 0.47                 | 30                   | 25.0      | 330.0             | 0.35                         | 660                         |
| -14K                                            | 10F        | 0.56                 | 30                   | 25.0      | 300.0             | 0.50                         | 550                         |
| -16K                                            | 11F        | 0.68                 | 28                   | 25.0      | 275.0             | 0.60                         | 500                         |
| -18K                                            | 12F        | 0.82                 | 28                   | 25.0      | 250.0             | 0.85                         | 420                         |
| -20K                                            | 13F        | 1.00                 | 25                   | 25.0      | 230.0             | 1.00                         | 390                         |
| <b>M83446/32 – SERIES MIL1330 IRON CORE</b>     |            |                      |                      |           |                   |                              |                             |
| -22K                                            | 01F        | 1.20                 | 25                   | 7.9       | 150.0             | 0.18                         | 620                         |
| -24K                                            | 02F        | 1.50                 | 28                   | 7.9       | 140.0             | 0.22                         | 560                         |
| -26K                                            | 03F        | 1.80                 | 30                   | 7.9       | 125.0             | 0.30                         | 480                         |
| -28K                                            | 04F        | 2.20                 | 30                   | 7.9       | 115.0             | 0.40                         | 415                         |
| -30K                                            | 05F        | 2.70                 | 37                   | 7.9       | 100.0             | 0.55                         | 355                         |
| -32K                                            | 06F        | 3.30                 | 45                   | 7.9       | 90.0              | 0.85                         | 285                         |
| -34K                                            | 07F        | 3.90                 | 45                   | 7.9       | 80.0              | 1.00                         | 263                         |
| -36K                                            | 08F        | 4.70                 | 45                   | 7.9       | 75.0              | 1.20                         | 239                         |
| -38K                                            | 09F        | 5.60                 | 50                   | 7.9       | 65.0              | 1.80                         | 195                         |
| -40K                                            | 10F        | 6.80                 | 50                   | 7.9       | 60.0              | 2.00                         | 185                         |
| -42K                                            | 11F        | 8.20                 | 55                   | 7.9       | 55.0              | 2.70                         | 160                         |
| -44K                                            | 12F        | 10.00                | 55                   | 7.9       | 50.0              | 3.30                         | 144                         |
| -46K                                            | 13F        | 12.0                 | 45                   | 2.5       | 40.0              | 2.70                         | 160                         |
| -48K                                            | 14F        | 15.0                 | 45                   | 2.5       | 35.0              | 2.80                         | 157                         |
| -50K                                            | 15F        | 18.0                 | 45                   | 2.5       | 30.0              | 3.10                         | 149                         |
| -52K                                            | 16F        | 22.0                 | 45                   | 2.5       | 25.0              | 3.30                         | 144                         |
| -54K                                            | 17F        | 27.0                 | 45                   | 2.5       | 20.0              | 3.50                         | 140                         |
| <b>M83446/33 – SERIES MIL1330 FERRITE CORE</b>  |            |                      |                      |           |                   |                              |                             |
| -56K                                            | 01F        | 33.0                 | 35                   | 2.5       | 24.0              | 3.40                         | 130                         |
| -58K                                            | 02F        | 39.0                 | 35                   | 2.5       | 22.0              | 3.60                         | 125                         |
| -60K                                            | 03F        | 47.0                 | 35                   | 2.5       | 20.0              | 4.50                         | 110                         |
| -62K                                            | 04F        | 56.0                 | 35                   | 2.5       | 18.0              | 5.70                         | 100                         |
| -64K                                            | 05F        | 68.0                 | 35                   | 2.5       | 15.0              | 6.70                         | 92                          |
| -66K                                            | 06F        | 82.0                 | 35                   | 2.5       | 14.0              | 7.30                         | 88                          |
| -68K                                            | 07F        | 100.0                | 35                   | 2.5       | 13.0              | 8.00                         | 84                          |
| -70K                                            | 08F        | 120.0                | 30                   | 0.79      | 12.0              | 13.00                        | 66                          |
| -72K                                            | 09F        | 150.0                | 30                   | 0.79      | 11.0              | 15.00                        | 61                          |
| -74K                                            | 10F        | 180.0                | 30                   | 0.79      | 10.0              | 17.00                        | 57                          |
| -76K                                            | 11F        | 220.0                | 30                   | 0.79      | 9.0               | 21.00                        | 52                          |
| -78K                                            | 12F        | 270.0                | 30                   | 0.79      | 8.0               | 25.00                        | 47                          |
| -80K                                            | 13F        | 330.0                | 30                   | 0.79      | 7.0               | 28.00                        | 45                          |
| -82K                                            | 14F        | 390.0                | 30                   | 0.79      | 6.5               | 35.00                        | 40                          |
| -84K                                            | 15F        | 470.0                | 30                   | 0.79      | 6.0               | 42.00                        | 36                          |
| -86K                                            | 16F        | 560.0                | 30                   | 0.79      | 5.0               | 46.00                        | 35                          |
| -88K                                            | 17F        | 680.0                | 30                   | 0.79      | 4.2               | 60.00                        | 30                          |
| -90K                                            | 18F        | 820.0                | 30                   | 0.79      | 3.8               | 65.00                        | 29                          |
| -92K                                            | 19F        | 1000.0               | 30                   | 0.79      | 3.4               | 72.00                        | 28                          |

**Parts listed above are QPL/MIL qualified**

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

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