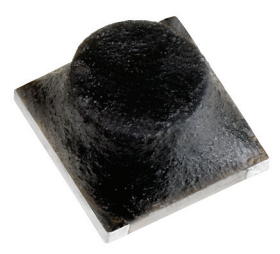
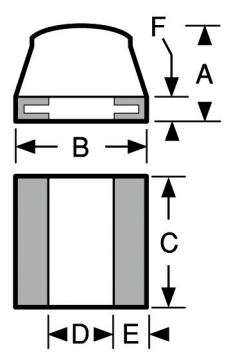


**SERIES**

**3094R**  
**3094**



**Micro i® Chip Inductors**



Actual Size

**Physical Parameters**

|   | Inches            | Millimeters      |
|---|-------------------|------------------|
| A | 0.140 Max.        | 3.56 Max.        |
| B | 0.147 to 0.163    | 3.73 to 4.14     |
| C | 0.117 to 0.133    | 2.97 to 3.38     |
| D | 0.070 Min.        | 1.78 Min.        |
| E | 0.017 to 0.033    | 0.43 to 0.84     |
| F | 0.020 Max. (Typ.) | 0.51 Max. (Typ.) |

**Current Rating at 90°C Ambient** 35°C Rise  
 Operating Temperature Range -55°C to +125°C  
 Maximum Power Dissipation at 90°C 0.155 W

**Inductance tolerance** desired is specified by suffixing an alpha character to the part number: F = 1%, G = 2%, H = 3%, J = 5%, K = 10%, and M = 20%. Standard series tolerance is ±10%. For inductance values less than .10µH, minimum tolerance is ±5%.

**Termination** Standard: Tin/Lead Sn63

**Mechanical Configuration** Units are epoxy encapsulated. Contact area for reflow are solder coated. Internal connections are thermal compression bonded.

**Notes** 1) Designed specifically for reflow soldering and other high temperature processes with metalized edges to exhibit solder fillet. 2) Self Resonant Frequency (SRF) values 270 MHz and above are calculated and for reference only. 3) Optional marking is available.

**Packaging** Tape & reel (12mm): 7" reel, 650 pieces max.; 13" reel, 2500 pieces max.

MIL-PRF-83446/10 (Reference)

Made in the U.S.A.

\*Complete part # must include series # PLUS the dash #  
 For surface finish information, refer to [www.delevanfinishes.com](http://www.delevanfinishes.com)

| MIL DASH # (Reference) | INDUCTANCE (µH) ±10% | TEST FREQUENCY (MHz) | SRF MINIMUM (MHz) | DC RESISTANCE MAXIMUM (OHMS) | CURRENT RATING MAXIMUM (mA) |
|------------------------|----------------------|----------------------|-------------------|------------------------------|-----------------------------|
|------------------------|----------------------|----------------------|-------------------|------------------------------|-----------------------------|

| DASH NUMBER* | M83446/10- (Reference) |        | SERIES 3094 IRON CORE |      |        |       |      |
|--------------|------------------------|--------|-----------------------|------|--------|-------|------|
| -100KS       | 62                     | 0.010  | 60                    | 150  | 2000.0 | 0.040 | 1000 |
| -120KS       | 63                     | 0.012  | 60                    | 150  | 1800.0 | 0.040 | 1000 |
| -150KS       | 64                     | 0.015  | 60                    | 150  | 1500.0 | 0.040 | 1000 |
| -180KS       | 65                     | 0.018  | 60                    | 150  | 1500.0 | 0.040 | 1000 |
| -220KS       | 66                     | 0.022  | 60                    | 100  | 1300.0 | 0.050 | 1000 |
| -270KS       | 67                     | 0.027  | 60                    | 100  | 1300.0 | 0.050 | 1000 |
| -330KS       | 68                     | 0.033  | 60                    | 100  | 1000.0 | 0.050 | 1000 |
| -390KS       | 69                     | 0.039  | 60                    | 100  | 1000.0 | 0.060 | 900  |
| -470KS       | 70                     | 0.047  | 65                    | 100  | 800.0  | 0.060 | 900  |
| -560KS       | 71                     | 0.056  | 65                    | 100  | 760.0  | 0.060 | 900  |
| -680KS       | 72                     | 0.068  | 65                    | 100  | 700.0  | 0.070 | 840  |
| -820KS       | 73                     | 0.082  | 65                    | 100  | 650.0  | 0.070 | 840  |
| -101KS       | 74                     | 0.100  | 65                    | 50   | 570.0  | 0.070 | 840  |
| -121KS       | 75                     | 0.120  | 65                    | 50   | 520.0  | 0.070 | 840  |
| -151KS       | 76                     | 0.150  | 75                    | 50   | 400.0  | 0.080 | 790  |
| -181KS       | 77                     | 0.180  | 75                    | 50   | 360.0  | 0.080 | 790  |
| -221KS       | 78                     | 0.220  | 70                    | 50   | 320.0  | 0.080 | 790  |
| -271KS       | 79                     | 0.270  | 70                    | 50   | 270.0  | 0.10  | 700  |
| -331KS       | 80                     | 0.330  | 70                    | 50   | 240.0  | 0.10  | 700  |
| -391KS       | 81                     | 0.390  | 70                    | 50   | 220.0  | 0.10  | 700  |
| -471KS       | 82                     | 0.470  | 70                    | 25   | 190.0  | 0.14  | 590  |
| -561KS       | 83                     | 0.560  | 70                    | 25   | 170.0  | 0.19  | 510  |
| -681KS       | 84                     | 0.680  | 70                    | 25   | 160.0  | 0.26  | 430  |
| -821KS       | 85                     | 0.820  | 75                    | 25   | 150.0  | 0.30  | 400  |
| -102KS       | 86                     | 1.00   | 75                    | 25   | 130.0  | 0.34  | 380  |
| -122KS       | 87                     | 1.20   | 65                    | 7.9  | 120.0  | 0.45  | 330  |
| -152KS       | 88                     | 1.50   | 65                    | 7.9  | 110.0  | 0.57  | 290  |
| -182KS       | 89                     | 1.80   | 65                    | 7.9  | 100.0  | 0.72  | 260  |
| -222KS       | 90                     | 2.20   | 65                    | 7.9  | 80.0   | 0.90  | 230  |
| -272KS       | 91                     | 2.70   | 65                    | 7.9  | 60.0   | 1.10  | 210  |
| -332KS       | 92                     | 3.30   | 60                    | 7.9  | 50.0   | 1.20  | 200  |
| -392KS       | 93                     | 3.90   | 60                    | 7.9  | 45.0   | 1.40  | 180  |
| -472KS       | 94                     | 4.70   | 60                    | 7.9  | 42.0   | 1.60  | 170  |
| -562KS       | 95                     | 5.60   | 65                    | 7.9  | 40.0   | 1.80  | 160  |
| -682KS       | 96                     | 6.80   | 65                    | 7.9  | 37.0   | 2.40  | 140  |
| -822KS       | 97                     | 8.20   | 65                    | 7.9  | 34.0   | 3.00  | 130  |
| -103KS       | 98                     | 10.0   | 65                    | 7.9  | 29.0   | 3.50  | 120  |
| -123KS       | 99                     | 12.0   | 60                    | 2.5  | 27.0   | 3.60  | 118  |
| -153KS       | 100                    | 15.0   | 60                    | 2.5  | 22.0   | 3.70  | 115  |
| -183KS       | 101                    | 18.0   | 60                    | 2.5  | 17.0   | 3.80  | 114  |
| -223KS       | 102                    | 22.0   | 60                    | 2.5  | 16.0   | 3.90  | 113  |
| -273KS       | 103                    | 27.0   | 65                    | 2.5  | 15.0   | 4.00  | 110  |
| -333KS       | 104                    | 33.0   | 65                    | 2.5  | 14.0   | 5.00  | 100  |
| -393KS       | 105                    | 39.0   | 65                    | 2.5  | 13.0   | 7.00  | 84   |
| -473KS       | 106                    | 47.0   | 70                    | 2.5  | 12.0   | 8.00  | 79   |
| -563KS       | 107                    | 56.0   | 70                    | 2.5  | 11.0   | 10.0  | 70   |
| -683KS       | 108                    | 68.0   | 65                    | 2.5  | 10.0   | 11.0  | 67   |
| -823KS       | 109                    | 82.0   | 60                    | 2.5  | 9.0    | 12.0  | 64   |
| -104KS       | 110                    | 100.0  | 60                    | 2.5  | 8.0    | 13.0  | 62   |
| -124KS       | 111                    | 120.0  | 40                    | 0.79 | 7.0    | 14.0  | 59   |
| -154KS       | 112                    | 150.0  | 40                    | 0.79 | 6.0    | 16.0  | 56   |
| -184KS       | 113                    | 180.0  | 40                    | 0.79 | 5.0    | 18.0  | 52   |
| -224KS       | 114                    | 220.0  | 40                    | 0.79 | 4.0    | 24.0  | 45   |
| -274KS       | 115                    | 270.0  | 40                    | 0.79 | 3.3    | 25.0  | 44   |
| -334KS       | 116                    | 330.0  | 40                    | 0.79 | 3.1    | 29.0  | 41   |
| -394KS       | 117                    | 390.0  | 40                    | 0.79 | 2.9    | 32.0  | 39   |
| -474KS       | 118                    | 470.0  | 35                    | 0.79 | 2.4    | 35.0  | 37   |
| -564KS       | 119                    | 560.0  | 35                    | 0.79 | 2.1    | 45.0  | 33   |
| -684KS       | 120                    | 680.0  | 35                    | 0.79 | 1.9    | 55.0  | 30   |
| -824KS       | 121                    | 820.0  | 30                    | 0.79 | 1.8    | 70.0  | 26   |
| -105KS       | 122                    | 1000.0 | 30                    | 0.79 | 1.7    | 80.0  | 25   |