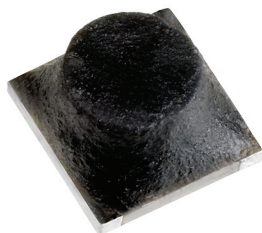
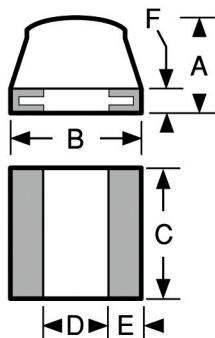


**SERIES****3094R  
3094****Micro i® Chip Inductors**

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  $\pm 10\%$ . For inductance values less than .10 $\mu$ H, minimum tolerance is  $\pm 5\%$ .

**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 #

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

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