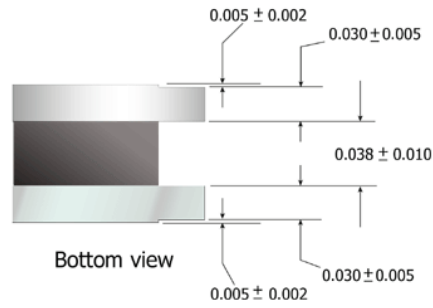
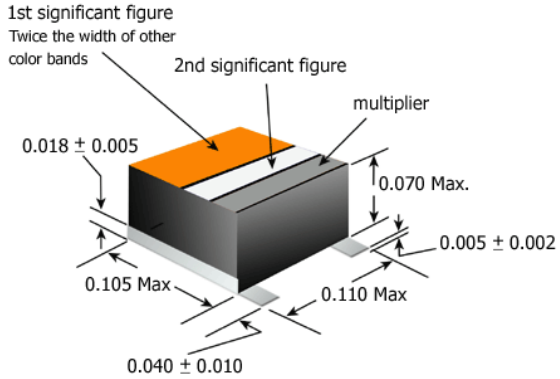


S8000 Series

MIL-STD-981, MIL-PRF-83446/8

Fixed Chip Inductor

QPL Approved



| Tape & Reel (additional charge) | |
|------------------------------------|------------|
| Type | Reel (Qty) |
| Tabs | 1,800 |
| No Tabs | 2,000 |

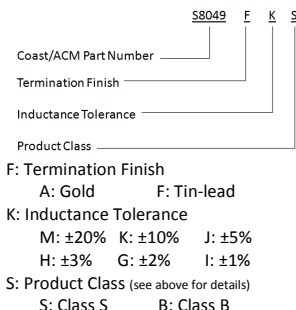
FEATURES

- Leadless device for minimum footprint
- Low EMI Radiation
- Low Thermal Expansion permits mounting on most substrate materials
- Custom Designs: Other electrical configurations and performance characteristics are available in various sizes and package types

SPECIFICATIONS

- Weight: 0.5 gram, maximum
- Operating temperature range: -55°C to 125°C
- Temperature rise (at 90°C): 35°C
- Altitude: 70,000 feet
- Dielectric withstanding voltage: Method 301 of MIL-STD-202, test voltage 500 Vrms
- Barometric Pressure: Method 105, test condition C, MIL-STD-202 (70,000 feet), test voltage 200 Vrms
- Outgassing meets NASA spec SP-R-0022A: TML < 1%
- Meets the requirements of MIL-PRF-83446 and MIL-STD-981, class S or class B
Class S parts are intended for critical flight and mission-essential ground support applications and any application that is critical to safety. Class B parts are for use in non-flight and non-mission-essential ground support applications.

Part or Identifying Number (PIN):



| With Tabs | | Without Tabs | | Inductance ±10% (μH) | Q Min | Q Typ | Test Freq (MHz) | SRF Min (MHz) | DCR Max (Ω) | Current Max (mA) |
|--------------|--------------|--------------|--------------|----------------------------|----------|----------|-----------------------|---------------------|-------------------|------------------------|
| Dash Number | C/ACM P/N | Dash Number | C/ACM P/N | | | | | | | |
| M83446/08-01 | S8001 | M83446/08-50 | S8050 | 0.010 | 50 | 55 | 150 | 2000 | 0.025 | 750 |
| M83446/08-02 | S8002 | M83446/08-51 | S8051 | 0.012 | 50 | 55 | 150 | 2000 | 0.025 | 750 |
| M83446/08-03 | S8003 | M83446/08-52 | S8052 | 0.015 | 50 | 55 | 150 | 1800 | 0.040 | 750 |
| M83446/08-04 | S8004 | M83446/08-53 | S8053 | 0.018 | 50 | 55 | 150 | 1500 | 0.040 | 750 |
| M83446/08-05 | S8005 | M83446/08-54 | S8054 | 0.022 | 45 | 50 | 100 | 1400 | 0.040 | 750 |
| M83446/08-06 | S8006 | M83446/08-55 | S8055 | 0.027 | 45 | 50 | 100 | 1200 | 0.040 | 750 |
| M83446/08-07 | S8007 | M83446/08-56 | S8056 | 0.033 | 47 | 55 | 100 | 1100 | 0.050 | 640 |
| M83446/08-08 | S8008 | M83446/08-57 | S8057 | 0.039 | 47 | 55 | 100 | 1000 | 0.07 | 600 |
| M83446/08-09 | S8009 | M83446/08-58 | S8058 | 0.047 | 47 | 55 | 100 | 900 | 0.08 | 550 |
| M83446/08-10 | S8010 | M83446/08-59 | S8059 | 0.056 | 47 | 55 | 100 | 850 | 0.09 | 520 |
| M83446/08-11 | S8011 | M83446/08-60 | S8060 | 0.068 | 47 | 55 | 100 | 840 | 0.10 | 480 |
| M83446/08-12 | S8012 | M83446/08-61 | S8061 | 0.082 | 47 | 55 | 100 | 750 | 0.11 | 470 |
| M83446/08-13 | S8013 | M83446/08-62 | S8062 | 0.100 | 47 | 55 | 50 | 580 | 0.11 | 470 |
| M83446/08-14 | S8014 | M83446/08-63 | S8063 | 0.120 | 47 | 55 | 50 | 240 | 0.11 | 470 |
| M83446/08-15 | S8015 | M83446/08-64 | S8064 | 0.150 | 47 | 55 | 50 | 230 | 0.12 | 450 |
| M83446/08-16 | S8016 | M83446/08-65 | S8065 | 0.180 | 51 | 60 | 50 | 230 | 0.14 | 430 |
| M83446/08-17 | S8017 | M83446/08-66 | S8066 | 0.220 | 51 | 60 | 50 | 230 | 0.20 | 350 |
| M83446/08-18 | S8018 | M83446/08-67 | S8067 | 0.270 | 51 | 60 | 50 | 230 | 0.25 | 310 |
| M83446/08-19 | S8019 | M83446/08-68 | S8068 | 0.330 | 51 | 60 | 50 | 200 | 0.30 | 280 |
| M83446/08-20 | S8020 | M83446/08-69 | S8069 | 0.390 | 47 | 55 | 50 | 190 | 0.45 | 240 |
| M83446/08-21 | S8021 | M83446/08-70 | S8070 | 0.470 | 47 | 55 | 25 | 180 | 0.50 | 230 |
| M83446/08-22 | S8022 | M83446/08-71 | S8071 | 0.560 | 45 | 53 | 25 | 170 | 0.50 | 230 |
| M83446/08-23 | S8023 | M83446/08-72 | S8072 | 0.680 | 45 | 53 | 25 | 160 | 0.50 | 230 |
| M83446/08-24 | S8024 | M83446/08-73 | S8073 | 0.820 | 45 | 53 | 25 | 150 | 0.50 | 230 |
| M83446/08-25 | S8025 | M83446/08-74 | S8074 | 1.00 | 45 | 53 | 25 | 130 | 0.50 | 230 |
| M83446/08-26 | S8026 | M83446/08-75 | S8075 | 1.20 | 36 | 43 | 7.9 | 120 | 0.60 | 200 |
| M83446/08-27 | S8027 | M83446/08-76 | S8076 | 1.50 | 36 | 43 | 7.9 | 100 | 1.1 | 160 |
| M83446/08-28 | S8028 | M83446/08-77 | S8077 | 1.80 | 38 | 45 | 7.9 | 90 | 1.1 | 160 |
| M83446/08-29 | S8029 | M83446/08-78 | S8078 | 2.20 | 38 | 45 | 7.9 | 85 | 1.5 | 130 |
| M83446/08-30 | S8030 | M83446/08-79 | S8079 | 2.70 | 41 | 48 | 7.9 | 80 | 1.7 | 125 |
| M83446/08-31 | S8031 | M83446/08-80 | S8080 | 3.30 | 42 | 50 | 7.9 | 75 | 1.8 | 120 |
| M83446/08-32 | S8032 | M83446/08-81 | S8081 | 3.90 | 42 | 50 | 7.9 | 65 | 2.0 | 110 |
| M83446/08-33 | S8033 | M83446/08-82 | S8082 | 4.70 | 41 | 48 | 7.9 | 55 | 2.3 | 100 |
| M83446/08-34 | S8034 | M83446/08-83 | S8083 | 5.60 | 41 | 48 | 7.9 | 45 | 2.6 | 98 |
| M83446/08-35 | S8035 | M83446/08-84 | S8084 | 6.80 | 36 | 43 | 7.9 | 40 | 2.8 | 94 |
| M83446/08-36 | S8036 | M83446/08-85 | S8085 | 8.20 | 36 | 43 | 7.9 | 35 | 3.0 | 90 |
| M83446/08-37 | S8037 | M83446/08-86 | S8086 | 10.0 | 36 | 43 | 7.9 | 33 | 3.3 | 87 |
| M83446/08-38 | S8038 | M83446/08-87 | S8087 | 12.0 | 36 | 43 | 7.9 | 26 | 4.0 | 79 |
| M83446/08-39 | S8039 | M83446/08-88 | S8088 | 15.0 | 32 | 38 | 2.5 | 24 | 4.2 | 79 |
| M83446/08-40 | S8040 | M83446/08-89 | S8089 | 18.0 | 32 | 38 | 2.5 | 21 | 4.4 | 75 |
| M83446/08-41 | S8041 | M83446/08-90 | S8090 | 22.0 | 32 | 38 | 2.5 | 19 | 7.5 | 57 |
| M83446/08-42 | S8042 | M83446/08-91 | S8091 | 27.0 | 32 | 38 | 2.5 | 14 | 8.0 | 55 |
| M83446/08-43 | S8043 | M83446/08-92 | S8092 | 33.0 | 30 | 35 | 2.5 | 12 | 13.0 | 45 |
| M83446/08-44 | S8044 | M83446/08-93 | S8093 | 39.0 | 30 | 35 | 2.5 | 10 | 17.0 | 38 |
| M83446/08-45 | S8045 | M83446/08-94 | S8094 | 47.0 | 30 | 35 | 2.5 | 9.0 | 19.0 | 36 |
| M83446/08-46 | S8046 | M83446/08-95 | S8095 | 56.0 | 30 | 35 | 2.5 | 8.5 | 23.0 | 33 |
| M83446/08-47 | S8047 | M83446/08-96 | S8096 | 68.0 | 30 | 35 | 2.5 | 8.2 | 25.0 | 32 |
| M83446/08-48 | S8048 | M83446/08-97 | S8097 | 82.0 | 30 | 35 | 2.5 | 8.0 | 28.0 | 30 |
| M83446/08-49 | S8049 | M83446/08-98 | S8098 | 100.0 | 30 | 35 | 2.5 | 7.0 | 31.0 | 28 |



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