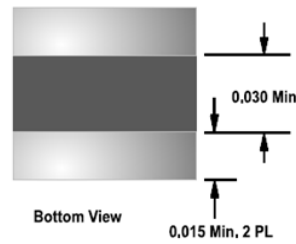
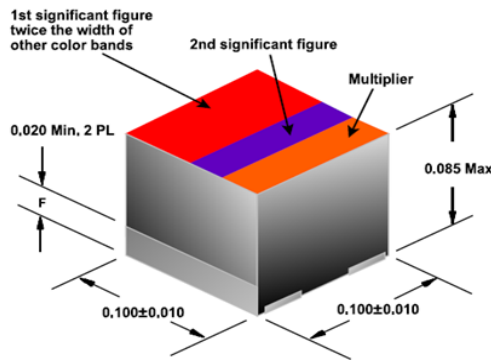


S4000 Series

Fixed Chip Inductor

MIL-STD-981, MIL-PRF-83446/4

QPL Approved



| Tape & Reel (additional charge) | |
|------------------------------------|------------|
| Type | Reel (Qty) |
| 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):

S4 XXX F K S

S4XXX: Coast/ACM Part Number

F: Termination Finish

A: Gold F: Tin-lead

K: Inductance Tolerance

M: ±20% K: ±10% J: ±5%

H: ±3% G: ±2% I: ±1%

S: CLASS (see above for details)

S: Class S B: Class B

| Dash Number | C/ACM P/N | Inductance ±10% (µH) | Q Min | Test Freq (MHz) | SRF Min (MHz) | DCR Max (Ω) | Current Max (mA) |
|--------------|-----------|----------------------|-------|-----------------|---------------|-------------|------------------|
| M83446/04-01 | S4001 | 0.12 ±10% | 30 | 25 | 750 | 0.125 | 880 |
| M83446/04-02 | S4002 | 0.15 ±10% | 25 | 25 | 650 | 0.175 | 745 |
| M83446/04-03 | S4003 | 0.18 ±10% | 25 | 25 | 550 | 0.200 | 695 |
| M83446/04-04 | S4004 | 0.22 ±10% | 25 | 25 | 450 | 0.220 | 665 |
| M83446/04-05 | S4005 | 0.27 ±10% | 25 | 25 | 375 | 0.230 | 650 |
| M83446/04-07 | S4007 | 0.39 ±10% | 22 | 25 | 235 | 0.240 | 635 |
| M83446/04-08 | S4008 | 0.47 ±10% | 22 | 25 | 215 | 0.260 | 610 |
| M83446/04-09 | S4009 | 0.56 ±10% | 22 | 25 | 195 | 0.278 | 590 |
| M83446/04-10 | S4010 | 0.68 ±10% | 22 | 25 | 175 | 0.520 | 435 |
| M83446/04-12 | S4012 | 1.0 ±10% | 22 | 25 | 145 | 0.540 | 425 |
| M83446/04-13 | S4013 | 1.2 ±10% | 22 | 7.9 | 130 | 0.740 | 360 |
| M83446/04-14 | S4014 | 1.5 ±10% | 22 | 7.9 | 115 | 0.840 | 340 |
| M83446/04-15 | S4015 | 1.8 ±10% | 22 | 7.9 | 105 | 0.920 | 325 |
| M83446/04-17 | S4017 | 2.7 ±10% | 24 | 7.9 | 77 | 1.15 | 290 |
| M83446/04-18 | S4018 | 3.3 ±10% | 24 | 7.9 | 70 | 1.40 | 260 |
| M83446/04-19 | S4019 | 3.9 ±10% | 24 | 7.9 | 68 | 1.55 | 250 |
| M83446/04-20 | S4020 | 4.7 ±10% | 24 | 7.9 | 60 | 1.80 | 230 |
| M83446/04-22 | S4022 | 6.8 ±10% | 22 | 7.9 | 50 | 2.20 | 210 |
| M83446/04-23 | S4023 | 8.2 ±10% | 22 | 7.9 | 48 | 2.50 | 195 |
| M83446/04-24 | S4024 | 10.0 ±10% | 24 | 7.9 | 40 | 3.45 | 165 |
| M83446/04-25 | S4025 | 12.0 ±10% | 25 | 2.5 | 35 | 3.80 | 160 |
| M83446/04-27 | S4027 | 18.0 ±10% | 25 | 2.5 | 28 | 5.80 | 130 |
| M83446/04-28 | S4028 | 22.0 ±10% | 25 | 2.5 | 25 | 6.40 | 125 |
| M83446/04-29 | S4029 | 27.0 ±10% | 25 | 2.5 | 22 | 6.90 | 120 |
| M83446/04-30 | S4030 | 0.010 ±20% | 60 | 50 | 2700 | 0.060 | 1270 |
| M83446/04-32 | S4032 | 0.022 ±20% | 50 | 50 | 1800 | 0.108 | 950 |
| M83446/04-33 | S4033 | 0.033 ±20% | 48 | 50 | 1450 | 0.120 | 900 |
| M83446/04-34 | S4034 | 0.047 ±20% | 42 | 50 | 1220 | 0.145 | 820 |
| M83446/04-35 | S4035 | 0.068 ±20% | 36 | 50 | 1000 | 0.195 | 705 |
| M83446/04-37 | S4037 | 0.010 ±10% | 60 | 50 | 2700 | 0.060 | 1270 |
| M83446/04-38 | S4038 | 0.012 ±10% | 57 | 50 | 2450 | 0.069 | 1190 |
| M83446/04-39 | S4039 | 0.015 ±10% | 55 | 50 | 2200 | 0.078 | 1110 |
| M83446/04-40 | S4040 | 0.018 ±10% | 52 | 50 | 2000 | 0.093 | 1030 |
| M83446/04-42 | S4042 | 0.027 ±10% | 49 | 50 | 1625 | 0.114 | 925 |
| M83446/04-43 | S4043 | 0.033 ±10% | 48 | 50 | 1450 | 0.120 | 900 |
| M83446/04-44 | S4044 | 0.039 ±10% | 45 | 50 | 1335 | 0.133 | 860 |
| M83446/04-45 | S4045 | 0.047 ±10% | 42 | 50 | 1220 | 0.145 | 820 |
| M83446/04-47 | S4047 | 0.068 ±10% | 36 | 50 | 1000 | 0.195 | 705 |
| M83446/04-48 | S4048 | 0.082 ±10% | 34 | 50 | 915 | 0.212 | 675 |
| M83446/04-49 | S4049 | 0.100 ±10% | 32 | 50 | 830 | 0.230 | 650 |



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