



Military Specifications

MS21426 (LT10K); MS21427 (LT10K)

Physical Parameters

| | Inches | Millimeters |
|-------------|----------------|---------------|
| Length | 0.250 ± 0.010 | 6.35 ± 0.25 |
| Diameter | 0.095 ± 0.010 | 2.41 ± 0.25 |
| Lead Size | | |
| AWG #24 TCW | 0.020 ± 0.0015 | 0.508 ± 0.038 |
| Lead Length | 1.5 ± 0.12 | 38.10 ± 3.05 |

Current Rating at 90°C Ambient 15°C Rise

Operating Temperature Range -55°C to +105°C

Maximum Power Dissipation at 90°C 0.0585 W

Weight Max. (Grams) 0.25

Incremental Current Current level which causes a Max. of 5% change in inductance.

Coupling 3% Max.

† Self Resonant Frequency (SRF) values are calculated and to be used for reference only.

Packaging Tape & reel: 12" reel, 3500 pieces max.; 14" reel, 6000 pieces max. For additional packaging options, see technical section.

Made in the U.S.A.

MS21426- SERIES 0925 IRON CORE & SLEEVE (LT10K)

| DASH NUMBER* | MIL DASH # | INDUCTANCE (uH) ±10% | Q MINIMUM | TEST FREQUENCY (MHz) | SRF MINIMUM (MHz) | DC RESISTANCE MAXIMUM (OHMS) | CURRENT RATING MAXIMUM (mA) | INCREMENTAL CURRENT (mA) |
|--------------|------------|----------------------|-----------|----------------------|-------------------|------------------------------|-----------------------------|--------------------------|
| -101K | 1 | 0.10 | 54 | 25.0 | 490.0† | 0.10 | 670 | 670 |
| -121K | 2 | 0.12 | 52 | 25.0 | 430.0† | 0.11 | 635 | 635 |
| -151K | 3 | 0.15 | 50 | 25.0 | 415.0† | 0.12 | 610 | 610 |
| -181K | 4 | 0.18 | 49 | 25.0 | 375.0† | 0.13 | 585 | 585 |
| -221K | 5 | 0.22 | 47 | 25.0 | 330.0† | 0.15 | 545 | 545 |
| -271K | 6 | 0.27 | 46 | 25.0 | 300.0† | 0.16 | 530 | 530 |
| -331K | 7 | 0.33 | 44 | 25.0 | 260.0† | 0.18 | 495 | 495 |
| -391K | 8 | 0.39 | 42 | 25.0 | 230.0 | 0.19 | 485 | 485 |
| -471K | 9 | 0.47 | 41 | 25.0 | 220.0 | 0.21 | 460 | 460 |
| -561K | 10 | 0.56 | 41 | 25.0 | 210.0 | 0.23 | 440 | 440 |
| -681K | 11 | 0.68 | 39 | 25.0 | 180.0 | 0.24 | 430 | 430 |
| -821K | 12 | 0.82 | 38 | 25.0 | 165.0 | 0.27 | 405 | 405 |
| -102K | 13 | 1.00 | 37 | 25.0 | 150.0 | 0.30 | 385 | 385 |
| -122K | 14 | 1.20 | 40 | 7.9 | 130.0 | 0.73 | 247 | 247 |
| -152K | 15 | 1.50 | 41 | 7.9 | 115.0 | 0.86 | 228 | 228 |
| -182K | 16 | 1.80 | 43 | 7.9 | 105.0 | 0.95 | 217 | 217 |
| -222K | 17 | 2.20 | 45 | 7.9 | 95.0 | 1.10 | 202 | 202 |
| -272K | 18 | 2.70 | 48 | 7.9 | 90.0 | 1.20 | 193 | 193 |
| -332K | 19 | 3.30 | 49 | 7.9 | 80.0 | 1.30 | 185 | 185 |
| -392K | 20 | 3.90 | 50 | 7.9 | 75.0 | 1.50 | 173 | 173 |
| -472K | 21 | 4.70 | 53 | 7.9 | 70.0 | 2.40 | 136 | 136 |
| -562K | 22 | 5.60 | 54 | 7.9 | 60.0 | 2.90 | 124 | 124 |
| -682K | 23 | 6.80 | 55 | 7.9 | 55.0 | 3.20 | 118 | 118 |
| -822K | 24 | 8.20 | 55 | 7.9 | 53.0 | 3.60 | 111 | 111 |
| -103K | 25 | 10.0 | 57 | 7.9 | 50.0 | 4.00 | 106 | 106 |
| -123K | 26 | 12.0 | 36 | 2.5 | 35.0 | 3.00 | 122 | 122 |
| -153K | 27 | 15.0 | 38 | 2.5 | 30.0 | 3.40 | 115 | 115 |
| -183K | 28 | 18.0 | 40 | 2.5 | 26.0 | 3.80 | 108 | 108 |
| -223K | 29 | 22.0 | 40 | 2.5 | 24.0 | 4.90 | 96 | 96 |
| -273K | 30 | 27.0 | 40 | 2.5 | 21.0 | 5.80 | 88 | 88 |
| -333K | 31 | 33.0 | 41 | 2.5 | 20.0 | 6.50 | 83 | 83 |
| -393K | 32 | 39.0 | 42 | 2.5 | 19.0 | 7.90 | 75 | 75 |
| -473K | 33 | 47.0 | 44 | 2.5 | 16.0 | 9.30 | 69 | 69 |
| -563K | 34 | 56.0 | 44 | 2.5 | 15.0 | 11.0 | 64 | 64 |
| -683K | 35 | 68.0 | 45 | 2.5 | 13.0 | 12.0 | 61 | 61 |
| -823K | 36 | 82.0 | 45 | 2.5 | 11.0 | 13.0 | 59 | 59 |
| -104K | 37 | 100.0 | 40 | 2.5 | 10.5 | 16.8 | 51 | 51 |

MS21427- SERIES 0925 FERRITE CORE & SLEEVE (LT10K)

| | | | | | | | | |
|-------|---|-------|----|------|------|------|----|----|
| -124K | 1 | 120.0 | 31 | 0.79 | 13.0 | 5.80 | 88 | 27 |
| -154K | 2 | 150.0 | 33 | 0.79 | 12.0 | 7.90 | 75 | 24 |
| -184K | 3 | 180.0 | 33 | 0.79 | 11.0 | 9.40 | 69 | 22 |
| -224K | 4 | 220.0 | 35 | 0.79 | 10.0 | 11.0 | 64 | 20 |
| -274K | 5 | 270.0 | 37 | 0.79 | 9.0 | 12.0 | 61 | 18 |
| -334K | 6 | 330.0 | 40 | 0.79 | 8.0 | 16.0 | 53 | 16 |
| -394K | 7 | 390.0 | 38 | 0.79 | 7.8 | 21.0 | 46 | 14 |
| -474K | 8 | 470.0 | 36 | 0.79 | 7.5 | 24.0 | 43 | 13 |
| -564K | 9 | 560.0 | 36 | 0.79 | 7.0 | 28.0 | 40 | 12 |

Parts listed above are QPL/MIL qualified

Optional Tolerances: J = 5% H = 3%

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

For further surface finish information, refer to TECHNICAL section of this catalog.

