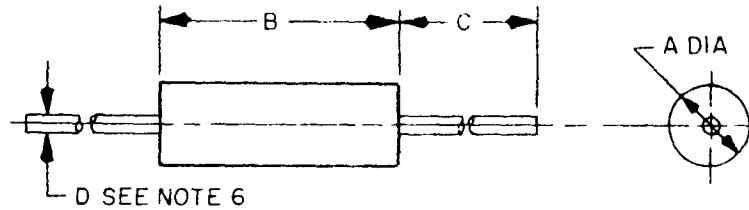


User activities:

Review activities:

This Military Standard is approved for use by AFALD/PTES (Preparing Activity), (Department of the AF) and is available for use by all Departments and Agencies of the Department of Defense.

FED. SUP CLASS  
5950

| Ltr | Dimensions in inches with metric equivalents (mm) in parentheses |               |
|-----|------------------------------------------------------------------|---------------|
|     | Minimum                                                          | Maximum       |
| A   | .085 (2.16)                                                      | .105 (2.67)   |
| B   | .240 (6.10)                                                      | .260 (6.60)   |
| C   | 1.250 (31.75)                                                    | 1.626 (41.30) |
| D   | .0185 (.47)                                                      | .0215 (.55)   |

(B)

| RATINGS                                                       |                                        |
|---------------------------------------------------------------|----------------------------------------|
| Style                                                         | LT4                                    |
| Grade                                                         | 1                                      |
| Class                                                         | B                                      |
| Temperature rise                                              | 35°C                                   |
| Ambient temperature                                           | 90°C                                   |
| Operating temperature                                         | -55° to +125°C                         |
| Dielectric withstanding voltage (sea level)                   | 300 volts rms for a minimum of 60 sec. |
| Dielectric withstanding voltage (reduced barometric pressure) | 100 volts rms for a minimum of 60 sec. |
| Terminal pull                                                 | 3 pounds                               |
| Altitude                                                      | 70,000 feet                            |
| Percent coupling                                              | 5 percent max.                         |
| Weight                                                        | .15 grams max.                         |

(B)

(B)

(B) REINSTATED FOR DESIGN AFTER 10 MAY 83

## Electrical characteristics (initial)

| Dash no. | Type designation | Inductance ±10% | Q min | Test frequency | Self-resonant frequency min | DC resistance at 25°C max | Max rated DC current | Incremental current |
|----------|------------------|-----------------|-------|----------------|-----------------------------|---------------------------|----------------------|---------------------|
|          |                  | μh              |       | MHz            | MHz                         | ohms                      | mA                   | mA                  |
| -1       | LT4K             | 12              | 45    | 2.5            | 40                          | 2.0                       | 250                  | 230                 |
| -2       | LT4K             | 15              | 45    | 2.5            | 36                          | 2.5                       | 230                  | 180                 |
| -3       | LT4K             | 18              | 45    | 2.5            | 31                          | 3.5                       | 195                  | 150                 |
| -4       | LT4K             | 22              | 46    | 2.5            | 28                          | 4.5                       | 170                  | 135                 |
| -5       | LT4K             | 27              | 48    | 2.5            | 25                          | 5.0                       | 160                  | 115                 |
| -6       | LT4K             | 33              | 48    | 2.5            | 23                          | 5.5                       | 150                  | 105                 |

(B) DENOTES CHANGE

P.A AF 85

International interest

Other Cust

TITLE COILS, RADIO FREQUENCY, MOLDED, FIXED, MICRO-MINIATURE, MAGNETICALLY SHIELDED, (FERRITE CORE - FERRITE SLEEVE) TYPE LT4K

MILITARY STANDARD

MS21397(85)

Procurement Specification  
MIL-C-15305

SUPERSEDES:

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(B)

FED. SUP CLASS  
5950

## Electrical characteristics (initial) continued

| Dash no. | Type designation | Inductance $\pm 10\%$ | Q min | Test frequency | Self-resonant frequency min | DC resistance at 25°C max | Max rated DC current | Incremental current |
|----------|------------------|-----------------------|-------|----------------|-----------------------------|---------------------------|----------------------|---------------------|
|          |                  | $\mu\text{h}$         |       | MHz            | MHz                         | ohms                      | mA                   | mA                  |
| -7       | LT4K             | 39                    | 48    | 2.5            | 22                          | 7.0                       | 140                  | 100                 |
| -8       | LT4K             | 47                    | 50    | 2.5            | 21                          | 7.5                       | 135                  | 95                  |
| -9       | LT4K             | 56                    | 52    | 2.5            | 19                          | 8.0                       | 130                  | 90                  |
| -10      | LT4K             | 68                    | 55    | 2.5            | 18                          | 9.0                       | 120                  | 83                  |
| -11      | LT4K             | 82                    | 55    | 2.5            | 16                          | 14                        | 95                   | 65                  |
| -12      | LT4K             | 100                   | 55    | 2.5            | 14                          | 16                        | 90                   | 70                  |
| -13      | LT4K             | 120                   | 34    | .79            | 9.5                         | 10                        | 115                  | 40                  |
| -14      | LT4K             | 150                   | 34    | .79            | 8.8                         | 12                        | 105                  | 35                  |
| -15      | LT4K             | 180                   | 34    | .79            | 8.1                         | 15                        | 90                   | 32                  |
| -16      | LT4K             | 220                   | 36    | .79            | 7.8                         | 20                        | 80                   | 30                  |
| -17      | LT4K             | 270                   | 36    | .79            | 7.3                         | 23                        | 75                   | 27                  |
| -18      | LT4K             | 330                   | 36    | .79            | 6.8                         | 26                        | 70                   | 25                  |
| -19      | LT4K             | 390                   | 36    | .79            | 6.0                         | 35                        | 65                   | 23                  |
| -20      | LT4K             | 470                   | 38    | .79            | 5.6                         | 37                        | 60                   | 21                  |
| -21      | LT4K             | 560                   | 40    | .79            | 5.0                         | 40                        | 58                   | 20                  |
| -22      | LT4K             | 680                   | 40    | .79            | 4.3                         | 48                        | 54                   | 18                  |
| -23      | LT4K             | 820                   | 40    | .79            | 3.8                         | 54                        | 47                   | 17                  |
| -24      | LT4K             | 1000                  | 40    | .79            | 3.5                         | 65                        | 43                   | 15                  |

REVISED (A) FOR CHANGES SEE PAGE 1 (B) FOR CHANGES SEE PAGES 1 THRU 3  
APPROVED 3 OCT 1973

P.A AF 85

Other Cust

International  
InterestTITLE COILS, RADIO FREQUENCY, MOLDED,  
FIXED, MICRO-MINIATURE, MAGNETICALLY  
SHIELDED, (FERRITE CORE-FERRITE  
SLEEVE) TYPE LT4K

MILITARY STANDARD

MS21397(85)

Procurement Specification  
MIL-C-15305

SUPERSEDES:

PAGE 2 OF 3

User activities:

Review activities:

This Military Standard is approved for use by AFALD/PDES (Preparing Activity), (Department of the AF) and is available for use by all Departments and Agencies of the Department of Defense.

| Electrical Characteristics (Final) |                                              |                   |                                                                                        |     |
|------------------------------------|----------------------------------------------|-------------------|----------------------------------------------------------------------------------------|-----|
| Inspection Group                   | Allowable variation from initial measurement |                   | Allowable % from specified minimum value in Electrical Characteristics (initial) table |     |
|                                    | Inductance                                   | DC resistance     | Self-resonant frequency                                                                | Q   |
|                                    | Percent                                      |                   |                                                                                        |     |
| Qualification inspection           |                                              |                   |                                                                                        |     |
| Group II                           | ± 5                                          | ----              | ----                                                                                   | -10 |
| Group III                          | ± 10                                         | ± (5% + .001 ohm) | -15                                                                                    | -20 |
| Group IV                           | ± 5                                          | ± (2% + .001 ohm) | -5                                                                                     | -20 |
| Quality conformance inspection     |                                              |                   |                                                                                        |     |
| Group C                            |                                              |                   |                                                                                        |     |
| Subgroup I                         | ± 5                                          | ----              | ----                                                                                   | -10 |
| Subgroup II                        | ± 5                                          | ± (2% + .001 ohm) | -5                                                                                     | -20 |
| Subgroup III                       | ± 10                                         | ± (5% + .001 ohm) | -15                                                                                    | -20 |

NOTES:

1. Barometric pressure test (test condition C) is applicable.
2. Shock, specified pulse, method 213, test condition I, is applicable.
3. These coils are intended to be supported by their leads.
4. After the overload test is performed, a period of 24 hours shall elapse prior to taking electrical characteristics (final) measurements.
5. DC resistance shall be the last measurement taken in the electrical characteristics test sequence.
6. Tinned copper wire lead AWG 24.
7. Dimensions are in inches.
8. Metric equivalents are given for general information only and are based upon 1 inch = 25.4 mm.
9. Referenced document shall be the issue in effect on date of invitation for bid.
10. This standard takes precedence over the procurement specification referenced herein.
11. The dash number added to the MS military standard number constitutes the MS part number, for example, MS21397-1.

(B)

|                                       |                        |                                                                                                                             |                   |
|---------------------------------------|------------------------|-----------------------------------------------------------------------------------------------------------------------------|-------------------|
| P.A AF 85                             | International interest | TITLE COILS, RADIOFREQUENCY, MOLDED, FIXED, MICRO-MINIATURE, MAGNETICALLY SHIELDED, (FERRITE CORE-FERRITE SLEEVE) TYPE LT4K | MILITARY STANDARD |
| Other Cust                            |                        |                                                                                                                             | MS21397(85)       |
| Procurement Specification MIL-C-15305 | SUPERSEDES:            |                                                                                                                             | PAGE 3 OF 3       |