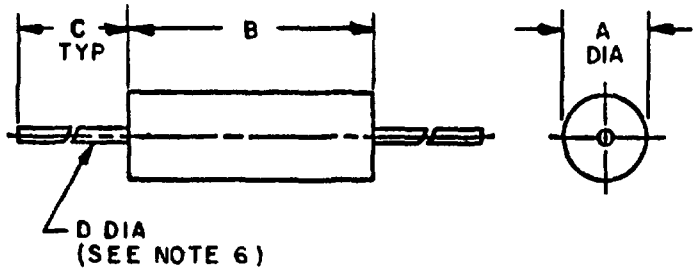


| RATINGS | |
|---|---|
| Style | LT10 |
| Grade | 1 |
| Class | A |
| Temperature rise | 15°C |
| Ambient temperature | 90°C |
| Operating temperature | -55° to +105°C |
| Dielectric withstanding Voltage (sea level) | 1000 volts rms for minimum of 60 sec |
| Dielectric withstanding Voltage (reduced barometric pressure) | 200 volts rms for a minimum of 60 sec. |
| Terminal pull | 5 pounds |
| Altitude | 70,000 feet |
| Weight | 4.0 grams max. |

| Ltr | Dimensions in inches with metric equivalents (mm) in parentheses | |
|---|---|---|
| | Minimum | Maximum |
| A | 365 (9 27) | .385 (9.78) |
| B | 615 (15 62) | .635 (16.13) |
| C | 1.250 (31.75) | 1.625 (41.28) |
| D | 026 ( 66) | .030 (.76) |

ELECTRICAL CHARACTERISTICS (INITIAL)

| Dash No. 1/ | Type designation 2/ | Former type designation | Superseded MS part no. | Inductance ±10% | Q min | Test freq. | Self-resonant frequency Min | DC resistance Max | Rated DC current |
|---|---|---|---|---|---|---|---|---|---|
| | | | | uh | | MHz | MHz | Ohms | Ma |
| -1 | LT10K148 | LT4K064 | MS75054-1 | 470 | 80 | .790 | 3.7 | 9.0 | 125 |
| -2 | LT10K149 | LT4K065 | -2 | 560 | 80 | .790 | 3.5 | 10.0 | 118 |
| -3 | LT10K150 | LT4K066 | -3 | 680 | 75 | .790 | 3.2 | 11.2 | 112 |
| -4 | LT10K151 | LT4K067 | -4 | 820 | 75 | .790 | 3.0 | 13.0 | 105 |
| -5 | LT10K152 | LT4K068 | -5 | 1000 | 70 | .790 | 2.7 | 14.5 | 95 |

1/ The dash number added to the MS military-standard number constitutes the MS part number; for example, MS 14049-1

2/ The decrease in maximum operating temperature from 125°C to 105°C does not downgrade these coils but assures satisfactory operation at 105°C for a minimum of 2000 hours of life rather than a shorter period of operation at 125°C.



APPROVED 15 February 1972 REVISED

| P A NAVY-EC<br>Other Cust AF-80<br>ARMY-EL | International interest | TITLE Coils, radio frequency, molded, fixed, subminiature (iron core) types LT10K148 to LT10K152 incl. | MILITARY STANDARD<br>MS14049 |
|---|---|---|---|
| Procurement Specification<br>MIL-C-15305 | | SUPERSEDES:<br>MS75054 | SHEET 1 OF 2 |

FED SUP CLASS
5950

| Electrical Characteristics (Final) | | | | |
|---|---|---|---|---|
| Inspection Group | Allowable variation from initial measurement | | Allowable % from specified minimum value in Electrical Characteristics (initial) table | |
| | Inductance Percent | DC resistance | Self-resonant frequency | Q |
| Qualification Inspection | | | | |
| Group II | ±2 | -- | -- | - 10 |
| Group III | ±5 | ±(3%+.001ohm) | - 8 | - 10 |
| Group IV | ±5 | ±(2%+.001ohm) | - 10 | - 15 |
| Quality Conformance Inspection | | | | |
| Group C | | | | |
| Subgroup I | ±2 | -- | -- | - 10 |
| Subgroup II | ±5 | ±(2%+.001ohm) | - 10 | - 15 |
| Subgroup III | ±5 | ±(3%+.001ohm) | - 8 | - 10 |

NOTES:
1. Dimensions are in inches.
2. Metric equivalents (to the nearest .01 mm) are given for general information only and are based upon 1 inch = 25.4 mm
3. These coils are intended to be mounted by the body
4. The polarizing voltage during the moisture-resistance tests is applied with the positive lead connected to the coil terminals tied together, and the negative lead connected to the metal strap.
5. Terminal strength (Pull) test, is not applicable in "Group B" inspection Table VI
6. Solderable/weldable lead wire, AWG #21.
7. Barometric pressure test (test condition C) is applicable
8. Shock, specified pulse, method 213, test condition I, is applicable
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

User activities: Army, Navy, Air Force

Reviewer activities: Army, Navy, Air Force

This military standard is mandatory for use by all Departments and Agencies of the Department of Defense. Selection for all new engineering and design applications and for repetitive use shall be made from this document.

APPROVED REVISED

| | | | |
|---|---|---|---|
| P A NAVY E C<br>Other Cust A F -80<br>ARMY E L | International interest | TITLE Coils, radio frequency, molded, fixed, subminiature (iron core) types LT10K148 to LT10K152 incl. | MILITARY STANDARD<br>MS14049 |
| Procurement Specification<br>MIL-C 15305 | | SUPERSEDING<br>MS75051 | SHEET 2 |

DD FORM 10 APR 64 672

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# SPECIFICATION ANALYSIS SHEET

Form Approved
Budget Bureau No. 22-R255

INSTRUCTIONS. This sheet is to be filled out by personnel (either government or contractor) involved in the use of the specification in procurement of products for ultimate use by the Department of Defense. This sheet is provided to obtain information for use of this specification which will insure that suitable products can be procured when needed at the lowest cost. Cooperation and the return of this form will be appreciated. Fold on lines, staple in corner and send to preparing activity. Comments and suggestions submitted on this form do not constitute or imply authorization to waive any portion of the referenced document(s) or to amend contractual requirements.

SPECIFICATION

ORGANIZATION

CITY AND STATE

CONTRACT NUMBER

MATERIAL PROCURED UNDER A

DIRECT GOVERNMENT CONTRACT | SUBCONTRACT

1. HAS ANY PART OF THE SPECIFICATION CREATED PROBLEMS OR REQUIRED INTERPRETATION IN PROCUREMENT USE?

A. GIVE PARAGRAPH NUMBER AND WORDING

B. RECOMMENDATION FOR CORRECTING THE DEFICIENCIES

2. COMMENTS ON APPLICATION. REQUIREMENTS CONSIDERED TOO RIGID

3. IS THE SPECIFICATION RESTRICTIVE?

4. REMARKS

5. SUBMITTED BY (Printed or typed name and address - Optional)

DATE

DD FORM 1426

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NAVAL ELECTRONIC SYSTEMS COMMAND
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