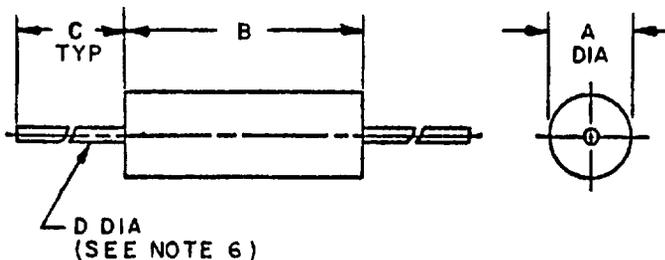


FED SUP CLASS
5950



User activities: Army - WC, ME, SL
Navy - AS, MC, SH
Air Force - 19

Reviewer activities: Army - MI, MU, SL
Navy - OS
Air Force - 11, 17, 80
DSA - ES

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.

| 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 a 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 | 2.8 grams max. |

| Ltr | Dimensions in inches with metric equivalents (mm) in parentheses | |
|-----|--|---------------|
| | Minimum | Maximum |
| A | .300 (7.62) | .320 (8.13) |
| B | .550 (13.97) | .570 (14.48) |
| 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| Dash No. 1/ | Type designation 2/ | Former type designation | Superseded MS part no.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 | LT10K143 | LT4K059 | MS75053-1 | 180 | 80 | .790 | 6.0 | 5.5 | 148 |
| -2 | LT10K144 | LT4K060 | -2 | 220 | 80 | .790 | 5.5 | 5.9 | 145 |
| -3 | LT10K145 | LT4K061 | -3 | 270 | 80 | .790 | 5.1 | 6.6 | 138 |
| -4 | LT10K146 | LT4K062 | -4 | 330 | 75 | .790 | 4.2 | 7.8 | 122 |
| -5 | LT10K147 | LT4K063 | -5 | 390 | 75 | .790 | 3.9 | 8.7 | 118 |

- 1/ The dash number added to the MS military-standard number constitutes the MS part number; for example, MS 14048-1.
- 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.

| | | | |
|---------------------------------------|------------------------|--|-------------------|
| P.A. NAVY-EC | International Interest | TITLE Coils, radio frequency, molded, fixed, subminiature (iron core) types LT10K143 to LT10K147 incl. | MILITARY STANDARD |
| Other Cust AF-80 | | | MS14048 |
| ARMY-EL | | SUPERSEDES: MS75053 | SHEET 1 OF 2 |
| Procurement Specification MIL-C-15305 | | | |

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-

- Dimensions are in inches
- Metric equivalents (to the nearest .01 mm) are given for general information only and are based upon 1 inch = 25.4 mm.
- These coils are intended to be mounted by the body
- 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.
- Terminal strength (Pull) test, is not applicable in "Group B" inspection Table VI.
- Solderable/weldable lead wire, AWG #21.
- Barometric pressure test (test condition C) is applicable.
- Shock, specified pulse, method 213, test condition I, is applicable.
- Referenced document shall be the issue in effect on date of invitation for bid.
- This standard takes precedence over the procurement specification referenced herein.

| | | | |
|---|---------------------------|--|--------------------------------------|
| P A NAVY-EC Other Cust A F-80 ARMY-EL | International interest | TITLE Coils, radio frequency, molded, fixed, subminiature (iron core) types LT10K143 to LT10K147 incl. | MILITARY STANDARD MS 14048 |
| Procurement Specification MIL-C-15305 | SUPERSEDES: MS75053 | SHEET 2 | |

User activities: Army
Navy
Air ForceReviewer 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.

REVISED

APPROVED

FOLD

DEPARTMENT OF THE NAVY
NAVAL ELECTRONIC SYSTEMS COMMAND
WASHINGTON, D. C. 20360

POSTAGE AND FEES PAID
NAVY DEPARTMENT

OFFICIAL BUSINESS

COMMANDER
NAVAL ELECTRONIC SYSTEMS COMMAND
DEFENSE STANDARDIZATION PROGRAM BRANCH
DEPARTMENT OF THE NAVY
WASHINGTON, D. C. 20360

FOLD

| SPECIFICATION ANALYSIS SHEET | | Form Approved Budget Bureau No 22-R255 |
|--|--|---|
| <p>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 for obtaining information on the use of this specification which will insure that suitable products can be procured with a minimum amount of delay and at the least cost. Comments and the return of this form will be appreciated. Fold on lines on reverse side, 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 serve to amend contractual requirements.</p> | | |
| SPECIFICATION | | |
| ORGANIZATION | | |
| CITY AND STATE | | CONTRACT NUMBER |
| <p>MATERIAL PROCURED UNDER A</p> <p><input type="checkbox"/> DIRECT GOVERNMENT CONTRACT <input type="checkbox"/> SUBCONTRACT</p> | | |
| <p>1. HAS ANY PART OF THE SPECIFICATION CREATED PROBLEMS OR REQUIRED INTERPRETATION IN PROCUREMENT USE?</p> <p>A. GIVE PARAGRAPH NUMBER AND WORDING.</p> | | |
| <p>B. RECOMMENDATIONS FOR CORRECTING THE DEFICIENCIES</p> | | |
| <p>2. COMMENTS ON ANY SPECIFICATION REQUIREMENT CONSIDERED TOO RIGID</p> | | |
| <p>3. IS THE SPECIFICATION RESTRICTIVE?</p> <p><input type="checkbox"/> YES <input type="checkbox"/> NO (If "Yes" in what way?)</p> | | |
| <p>4. REMARKS (Attach any pertinent data which may be of use in improving this specification. If necessary, use additional papers, attach to form and place both in an envelope addressed to, separated by 1951)</p> | | |
| SUBMITTED BY (Printed or typed name and activity - Optional) | | DATE |

DD FORM 1426
1 JAN 66

REPLACES EDITION

MAY BE USED

S N-0102-014 1801