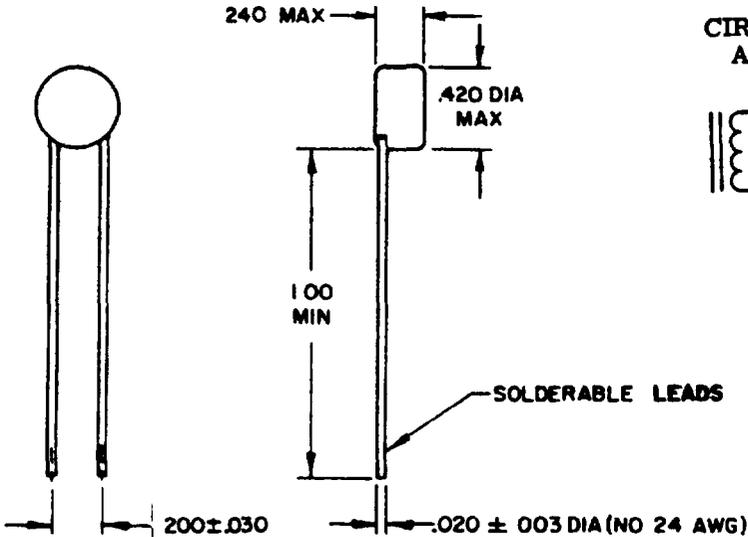


MILITARY SPECIFICATION SHEET

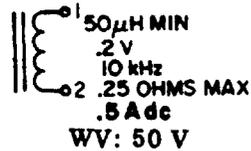
TRANSFORMERS AND INDUCTORS
(AUDIO, POWER AND HIGH-POWER PULSE),
INDUCTOR, POWER, TYPE TF5S04ZZ903

This specification is approved for use by all Departments and Agencies of the Department of Defense.

The complete requirements for procuring the inductor described herein shall consist of this document and the latest issue of Specification MIL-T-27.



CIRCUIT DIAGRAM
AND MARKING



INCHES	MM
.240	6.10
.420	10.67

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. Tolerance on terminal position dimensions is ±.015.
4. Marking shall be on the side of the case.

MIL-T-27/86

REQUIREMENTS: (When numbers in parentheses, i.e., (1-2) are used, they indicate the extreme terminals of the winding.)

Electrical ratings:

Inductance (1-2): 50 μ H minimum.
Voltage (1-2): 0.2 Vrms, 10 kHz.
Power: 0.063 watt.
Current (1-2): 0.5 ampere dc.
DC resistance (1-2): 0.25 ohm maximum.
Working voltage: 50 V maximum.

Design and construction:

Dimensions and configuration: See figure.
Duty cycle: Continuous.
Case: Encapsulated.
Material: Epoxy.
Terminals: Solid wire lead type, tinned nickel.
Weight: 1.1 grams.
Operating temperature range: -55° to 130°C.

Terminal strength: MIL-STD-202, method 211, test condition A, 2 pounds.

Terminal twist: MIL-STD-202, method 211, test condition D.

Dielectric withstanding voltage (at sea level) 100 Vrms.

Electrical characteristics

Inductance: With 0.2 Vrms, 10 kHz across, and 0.5 ampere dc applied to (1-2) the inductance shall be 50 μ H minimum.
DC resistance: 0.25 ohm across (1-2) maximum

Marking location: See figure.

Part number. M27/86-01.

Custodians

Army - EL
Navy - EC
Air Force - 85

Review activities:

Army - EL, MI, SG
Navy - EC, SH, OS
Air Force - 11, 17, 80
DSA - ES

User activities:

Army - MU, WC, ME
Navy - MC, AS, SH, OS
Air Force - 19

Preparing activity:

Army - EL

Agent:

DSA - ES

(Project 5950-0506-6)

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 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.

SPECIFICATION MIL-T-27786 INDUCTOR, POWER, TYPE TF5S04ZZ903

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 RECOMMENDATIONS FOR CORRECTING THE DEFICIENCIES

2 COMMENTS ON ANY SPECIFICATION REQUIREMENT CONSIDERED TOO RIGID

3. IS THE SPECIFICATION RESTRICTIVE?

YES NO (If "yes", in what way?)

4 REMARKS (Attach any pertinent data which may be of use in improving this specification. If there are additional papers, attach to form and place both in an envelope addressed to preparing activity)

SUBMITTED BY (Printed or typed name and activity - Optional)

DATE

To detach & file out along this line

DD FORM 1426
1 JAN 66

REPLACES EDITION OF 1 OCT 64 WHICH MAY BE USED

ESC-FM 1068-68

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