

INCH-POUND

MIL-DTL-24251/3D
11 July 2013
SUPERSEDING
MIL-DTL-24251/3C
15 February 2008

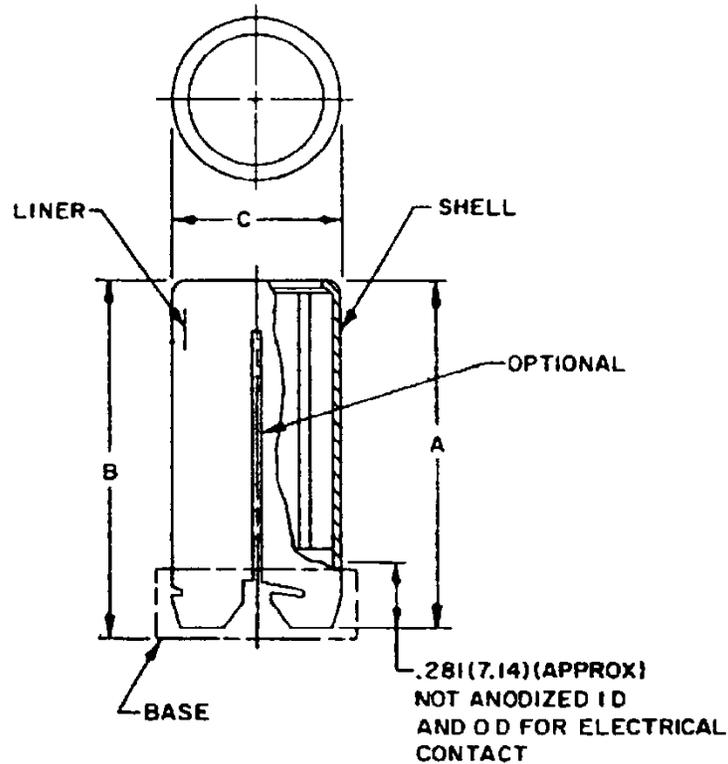
DETAIL SPECIFICATION SHEET

SHIELD, ELECTRON TUBE, HEAT DISSIPATING
7 AND 9 PIN, MINIATURE
(SPLIT SHELL)

This specification sheet is inactive for
new design after 11 July 2013.

The requirements for acquiring the product described herein
shall consist of this specification sheet and MIL-DTL-24251.

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



NOTES:

1. All dimensions are in inches.
2. Millimeters are in parentheses.
3. Metric equivalents (to the nearest 0.01 mm) are given for general information only and are based upon 1 inch = 25.4 mm.
4. Unless otherwise specified, tolerance is 2 places $\pm .010$ (0.25 mm); 3 places $\pm .005$ (0.13 mm).

FIGURE 1. Dimensions and configuration.

TABLE 1. Characteristics.

Dash no.	Heat dissipation temp. reduction in °C (minimum)	A ±.060 (1.48)	B Max	C ±.015 (0.38)	Weight grams max <u>2/</u>	Tube envelope		Retainer (base) ref	Tube socket ref
						Style	Length nom.		
1	40	1.343 (34.11)	1.593 (40.46)	.875 (22.23)	11.0	T-5 1/2	1.125 (28.58)	M24251/4-1	MIL-PRF-12883/10
2	70	1.843 (46.81)	2.093 (53.16)	.875 (22.23)	15.0	T-5 1/2	1.500 (38.10)	M24251/4-1	MIL-PRF-12883/10
3	75	2.343 (59.51)	2.593 (65.86)	.875 (22.23)	19.0	T-5 1/2	2.000 (50.80)	M24251/4-1	MIL-PRF-12883/10
4	35	1.343 (34.11)	1.593 (40.46)	1.000 (25.40)	12.0	T-6 1/2	1.125 (28.45)	M24251/4-2	MIL-PRF-12883/11
5	85	1.843 (46.81)	2.093 (53.16)	1.000 (25.40)	16.0	T-6 1/2	1.562 (39.62)	M24251/4-2	MIL-PRF-12883/11
6	75	2.343 (59.51)	2.593 (65.86)	1.000 (25.40)	20.0	T-6 1/2	2.000 (50.80)	M24251/4-2	MIL-PRF-12883/11
7 <u>1/</u>	75	2.562 (65.07)	2.812 (71.42)	1.000 (25.40)	20.0	T-6 1/2	2.437 (61.90)	M24251/4-2	MIL-PRF-12883/11

1/ This shield is for use with noval tubes which are longer than usual tubes, for example, tube type 6094.

2/ Weight of shield assembly less base.

REQUIREMENTS:

The shield, locking mechanism, liner, and other parts shall be designed to meet the requirements in MIL-DTL-24251, and to fit the tube envelope, tube socket, and retainer (base) specified in table I.

Dimensions and configuration: See figure 1 and table I.

Material:

Liner: Beryllium copper, ASTM-B194.

Shell: Aluminum alloy, SAE-AMS-QQ-A-250, and ASTM-B209.

Finish:

Liner: Black cadmium plate, SAE-AMS-QQ-P-416, class 3, type II, optional finish: Henderlube or equal.

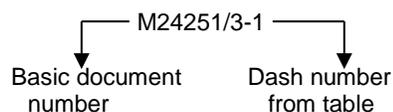
Shell: Black anodize - type II in accordance with MIL-A-8625, or black matte in accordance with MIL-DTL-5541, optional finish: Henderlube or equal.

Installation force shall not exceed 20 pounds.

Engaging torque: 20 inch-pounds maximum.

The Part or Identifying Number (PIN) consists of the basic number of this specification sheet, preceded by the letter "M", and a dash number taken from table I.

Example:



Referenced Documents: In addition to MIL-DTL-24251, this document references the following:

MIL-DTL-5541
MIL-A-8625
MIL-DTL-12883/10
MIL-DTL-12883/11
ASTM-B194
ASTM-B209
SAE-AMS-QQ-A-250
SAE-AMS-QQ-P-416

The margins of this specification are marked with vertical lines to indicate where changes from the previous issue were made. This was done as a convenience only and the Government assumes no liability whatsoever for any inaccuracies in these notations. Bidders and contractors are cautioned to evaluate the requirements of this document based on the entire content irrespective of the marginal notations and relationship to the last previous issue.

Custodians:

Army - CR
Navy - EC
Air Force - 85
DLA - CC

Preparing activity:
DLA - CC

(Project 5960-2013-017)

Review activities:

Army - MI
Navy - CG, MC
Air Force - 19, 99

NOTE: The activities listed above were interested in this document as of the date of this document. Since organizations and responsibilities can change, you should verify the currency of the information above using the ASSIST Online database at <https://assist.dla.mil/>.