

INCH-POUND

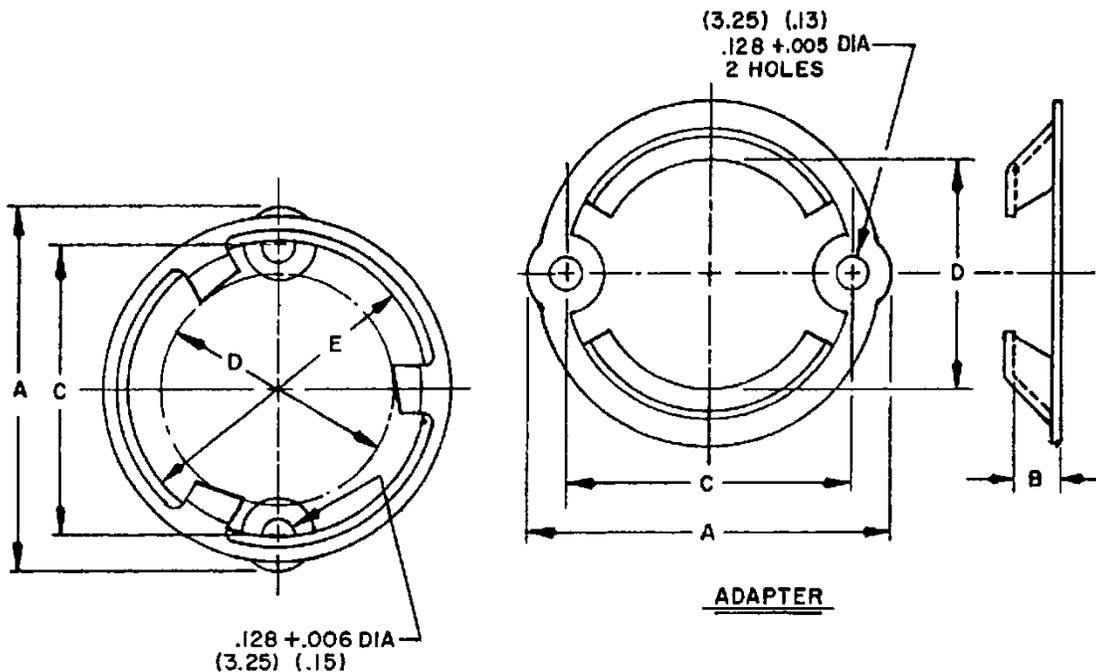
MIL-DTL-24251/4D  
11 July 2013  
SUPERSEDING  
MIL-DTL-24251/4C  
15 February 2008

DETAIL SPECIFICATION SHEET

RETAINER (BASE), AND ADAPTER,  
ELECTRON TUBE, HEAT DISSIPATING,  
7 AND 9 PIN, MINIATURE

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).
5. Lugs: Dash 1 has 3 lugs, equally spaced.  
Dash 2 has 4 lugs, equally spaced.
6. MIL-DTL-24251/4 (retainer (base) and adapter) was formerly MS24231 (USAF), 29 Jan 1958.

FIGURE 1. Dimensions and configuration.

TABLE 1.Characteristics.

Dash no.	Mounting	A max	B	C ±.010 (0.25)	D	E ±.010 (0.25)	Weight grams max	Tube socket (ref)	Shield (ref)
1	Retainer <u>1</u> /	1.140 (28.96)	.427 ± .010 (10.85 ± 0.25)	.875 (22.23)	.790 ± .010 (20.07 ± 0.25)	.879 (22.33)	7.5	MIL-DTL-12883/10	M24251/3-1 through -3 and M24251/5-1 through -3
2	Retainer <u>1</u> /	1.390 (35.31)	.427 ± .010 (10.85 ± 0.25)	1.125 (28.58)	.905 ± .010 (22.99 ± 0.25)	1.000 (25.40)	8.0	MIL-DTL-12883/11	M24251/3-4 through -7 and M24251/5-4 through -6
3	Retainer <u>2</u> /	1.140 (28.96)	.085 ± .005 (2.16 ± 0.13)	.875 (22.23)	.656 ± .031 (16.66 ± 0.79)		1.5	MIL-DTL-12883/2	M24251/3-1 through -3 and M24251/5-1 through -3
4	Retainer <u>2</u> /	1.390 (35.31)	.075 ± .005 (1.91 ± 0.13)	1.125 (28.58)	.750 ± .031 (19.05 ± 0.31)		3.0	MIL-DTL-12883/3	M24251/3-4 through -7 and M24251/5-4 through -6

1/ Where it is desired to use retainer -1 or -2 with electron tube socket MIL-DTL-12883/2 or MIL-DTL-12883/3, it is necessary to replace the shield base on the above sockets with the applicable adapter.

2/ Not recommended for new design.

MIL-DTL-24251/4D

REQUIREMENTS:

The retainer (base), adapter, and other parts, as shown in figure 1, shall be designed to meet the requirements of MIL-DTL-24251, and to fit the shield and tube socket specified in table I.

Dimensions and configuration: See figure 1 and table I.

Retainer (base):

Material-Brass, sheet, .032 inch (0.81 mm) thick, ASTM-B36/36M and ASTM-B121/B121M, composition 2, annealed or aluminum alloy ASTM-B85/B85M, ASTM-B26/B26M, ASTM-B108/B108M; and SAE-J452, SAE-AMS4290 and SAE-AMS4291.

Finish-Black cadmium plate, SAE-AMS-QQ-P-416, class 1, type II, optional finish: Henderlube or equal, chromate MIL-DTL-5541.

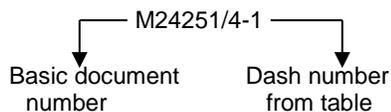
Adapter:

Material-Brass, sheet, .015 inch (0.38 mm) thick on -3 and .025 inch (0.64 mm) thick on -4, ASTM-B36/B36M and ASTM-B121/B121M, composition 2, annealed.

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

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-DTL-12883/2  
MIL-DTL-12883/3  
MIL-DTL-12883/10  
MIL-DTL-12883/11  
ASTM-B26/B26M  
ASTM-B36/B36M  
ASTM-B85/B85M  
ASTM-B108/B108M  
ASTMB121/B121M  
SAE-AMS4290  
SAE-AMS4291  
SAE-AMS-QQ-P-416  
SAE-J452

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