

INCH-POUND

MS28034B

20 September 2007

SUPERSEDING

MS28034A

24 March 1955

DETAIL SPECIFICATION SHEET

BULBS, TEMPERATURE, ELECTRICAL RESISTANCE (-70 °C TO +300 °C)

Reactivated after 20 September 2007 and may be used for new and existing designs and acquisitions.

This specification sheet is approved for use by all departments and agencies of the Department of Defense.

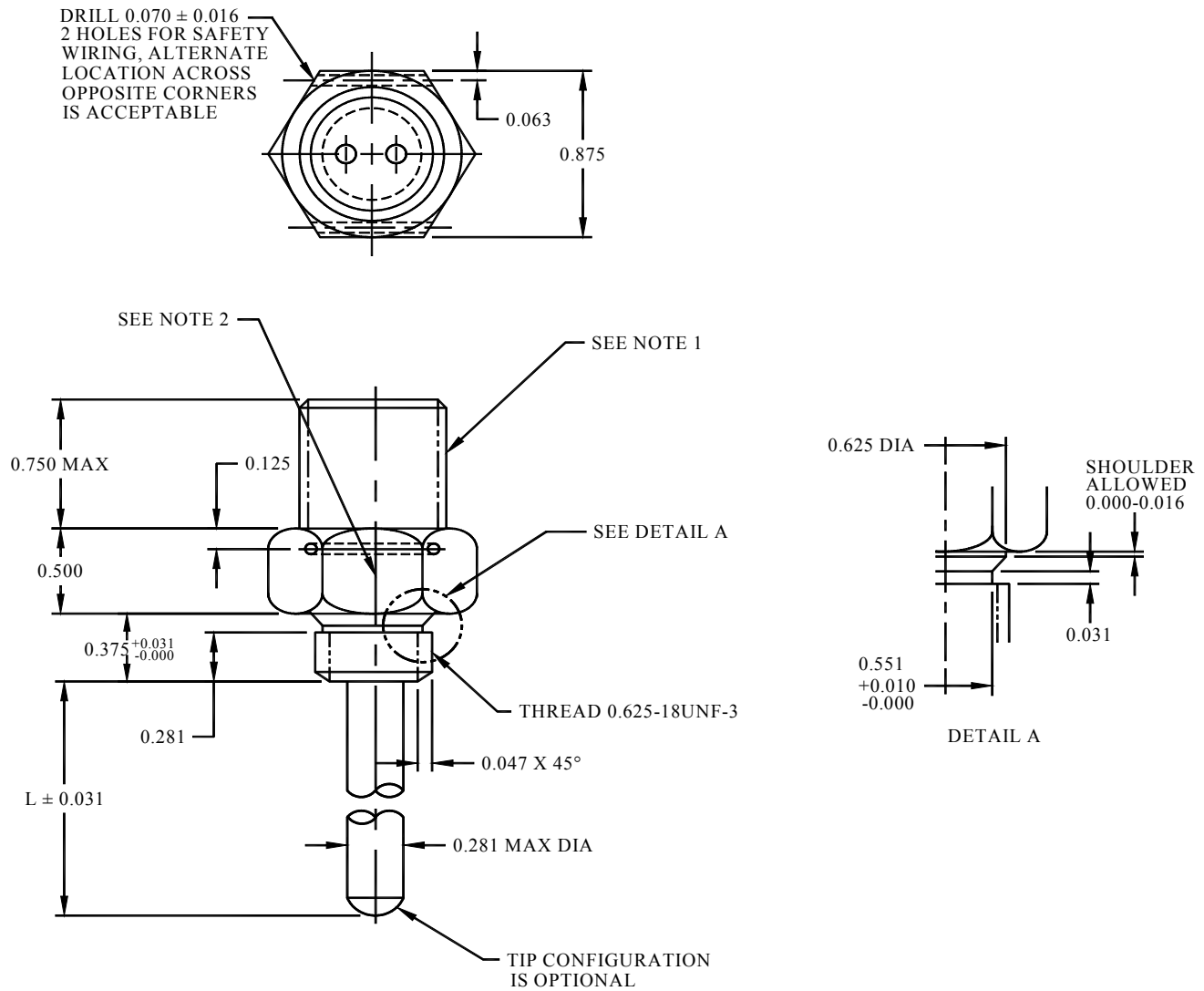
The requirements for acquiring the product described herein shall consist of this specification sheet and MIL-DTL-7990C, "Transmitter, Temperature, Electrical Resistance, -70° to +300°C".

GENERAL INFORMATION:

1. Part or identification number (PIN). The PIN to be used for electrical resistance temperature bulbs acquired to this specification is created as follows:

<u>MS 28034 - X</u>			Stem length <u>(inches)</u>	Overall length <u>(inches)</u>
		1 = Size 1	= 1.875	3.500
		2 = Size 2	= 4.000	5.625
		3 = Size 3	= 0.325	2.125
		4 = Size 4	= 1.875	2.506
		Specification sheet number		
		Prefix for military specification		

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PIN	Stem length "L" (inches)	Overall length (nominal) (inches)
MS28034-1	1.875	3.500
MS28034-2	4.000	5.625

The centerline through the alignment key in the receptacle shall be perpendicular to the centerline through the pins. The position of the pins relative to the flats on the hexagonal is optional.

Dimensions in inches.

Unless otherwise specified, tolerances: decimal ± 0.016 , angles ± 2 degrees.

All exposed joints shall be hermetically sealed.

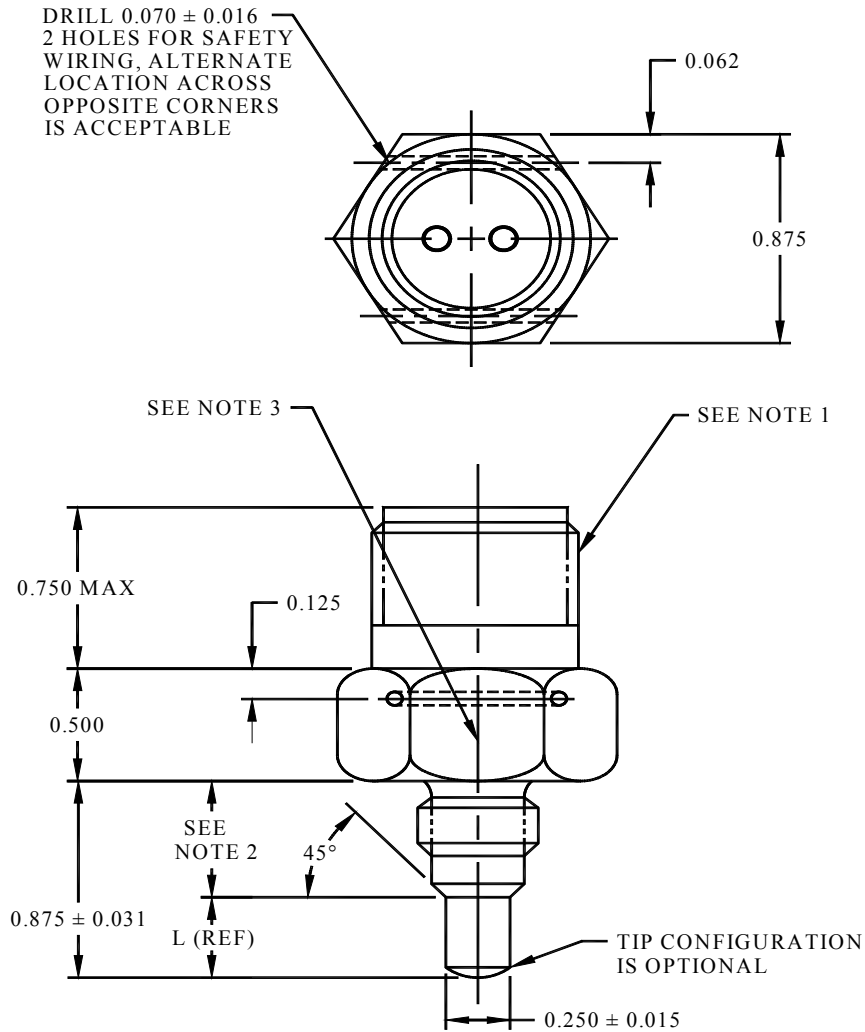
This bulb to be furnished with gasket SAE AS35769-11.

Notes:

1. Electrical receptacle shall be in accordance with MS33678-12S-3P, except as noted.
2. Stamp or engrave MS part number, manufacturer's part number, name of manufacturer, and serial number in accordance with MIL-STD-130.

FIGURE 1. Dimensions and tolerances, MS28034-1 and MS28034-2.

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PIN	Stem length "L" (reference) (inches)	Overall length (nominal) (inches)
MS28034-3	0.325	2.125

The centerline through the alignment key in the receptacle shall be perpendicular to the centerline through the pins. The position of the pins relative to the flats on the hexagonal is optional.

Dimensions in inches.

Unless otherwise specified, tolerances: decimals ± 0.016 , angles $\pm 1/2$ degree.

All exposed joints shall be hermetically sealed.

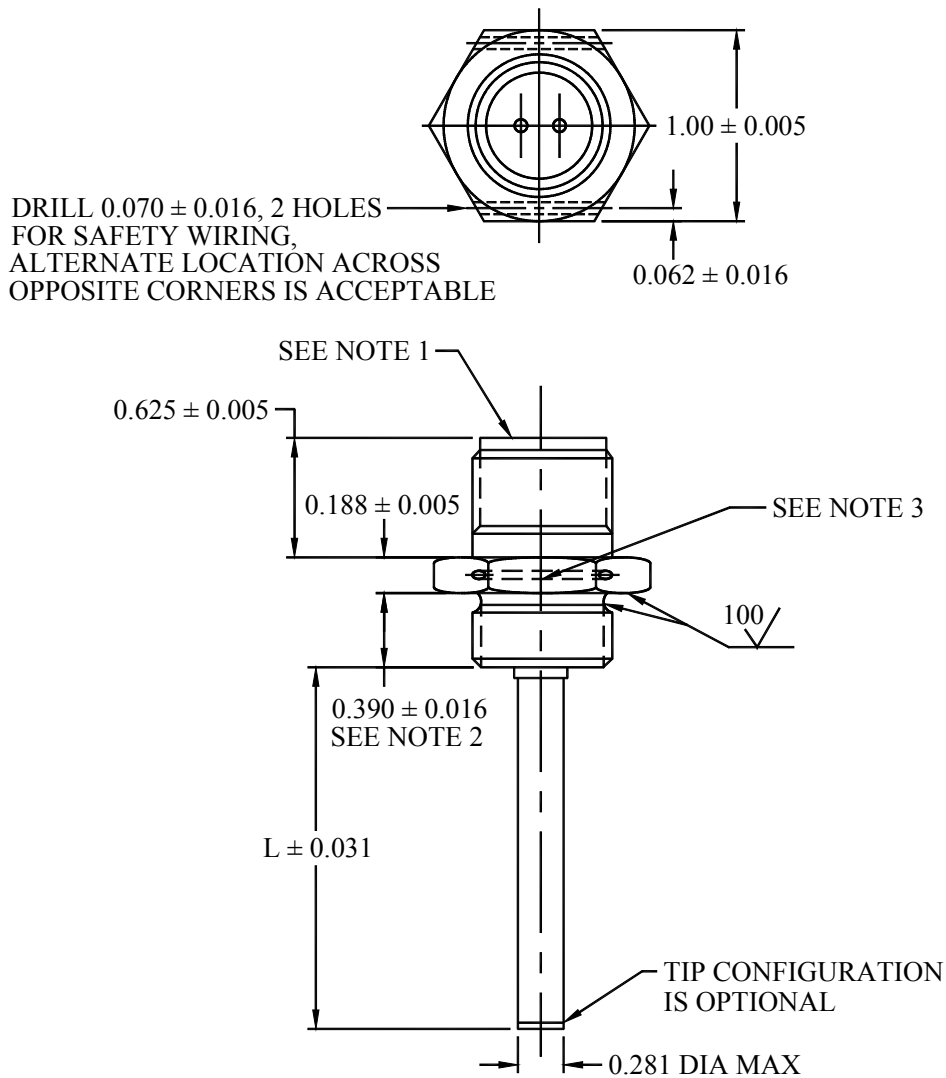
This bulb to be furnished with gasket SAE AS35769-8.

Notes:

1. Electrical receptacle shall be in accordance with MS33678-12S-3P, except as noted.
2. The fitting area shall be in accordance with SAE AS4395-E-04, except as noted.
3. Stamp or engrave MS part number, manufacturer's part number, name of manufacturer, and serial number in accordance with MIL-STD-130.

FIGURE 2. Dimensions and tolerances, MS28034-3.

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PIN	Stem length "L" (inches)	Overall length (nominal) (inches)
MS28034-4	1.875	2.506

Dimensions in inches.

This bulb to be furnished with gasket SAE AS35769-15.

All exposed joints shall be hermetically sealed.

Notes:

1. Electrical receptacle shall be in accordance with MS33678-12S-3P, except as noted.
2. The fitting area shall be in accordance with SAE AS4395-E-08, except as noted. Specifically, there is no nipple extension past the end of the thread and the sealing area has a $100 \mu\text{in}$ maximum finish.
3. Stamp or engrave MS part number, manufacturer's part number, name of manufacturer, and serial number in accordance with MIL-STD-130.

FIGURE 3. Dimensions and tolerances, MS28034-4.

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CHANGES FROM PREVIOUS ISSUE: Marginal notations are not used in this revision to identify changes with respect to the previous issue due to the extent of the changes.

Custodians:

Army - CR

Navy - AS

Air Force - 99

Preparing Activity:

DLA - GS1

(Project 6685-2006-002)

Review Activities:

Army - AV

Air Force - 71

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 database at <http://assist.daps.dla.mil>.