

INCH-POUND

MS75009J
w/ AMENDMENT 4
5 December 2014
SUPERSEDING
MS75009J
w/ AMENDMENT 3
8 August 2008

DETAIL SPECIFICATION SHEET

BRACKET ASSEMBLY, RESISTOR (POWER TYPE)

This specification 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 the latest issues of [MIL-PRF-26](#) and [MIL-R-19365](#).

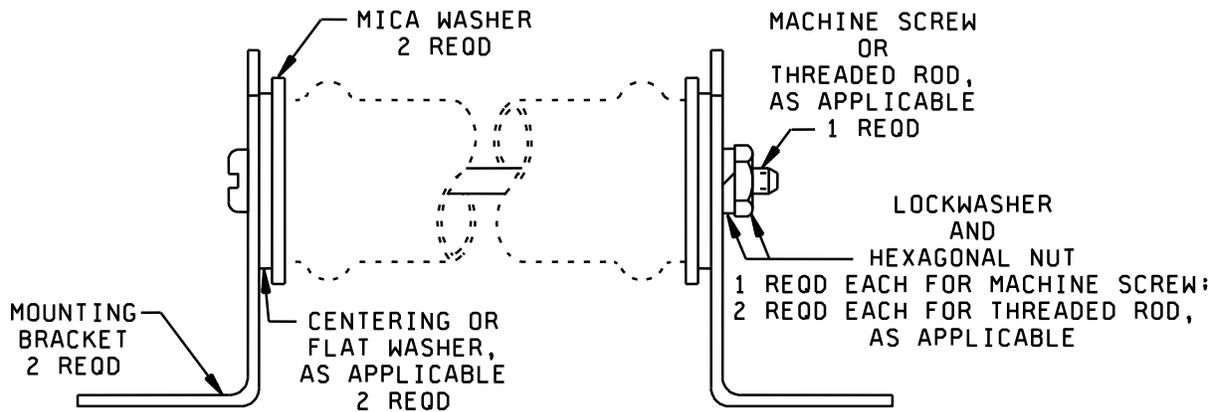


FIGURE 1. Bracket assembly.

Comments, suggestions, or questions on this document should be addressed to: DLA Land and Maritime, ATTN: VAT, Post Office Box 3990, Columbus, Ohio 43218-3990 or by email Resistor@dla.mil. Since contact information can change, you may want to verify the currency of this address information using the ASSIST Online database at <https://assist.dla.mil/>.

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Assembly dash no. 1/	Resistor style		Dash number or MS part or identifying number (PIN)										
	Spec MIL-PRF-26	Spec MIL-R-19365	Mica washer	Centering washer	Flat washer		Mounting bracket	Pan head machine screw 2/					
					Part No.	Dash No.		Part No.	Dash No.				
-29	RW29	RX29	-1		NASM 15795	-807	-7	MS51957	-55				
-30	RW30		-2									-52	
-31	RW31												-54
-32	RW32	RX32											-56
-33	RW33	RX33	-3	-5			-8	MS75009	-18				
-34	RW34										-18		
-35	RW35	RX35									-19		
-36	RW36	RX36	-4	-6			-9			-19			
-37	RW37	RX37										-20	
-38	RW38	RX38										-21	
-39	RW39										-23		
-47	RW47	RX47							-22				

Assembly dash no. 1/	Resistor style		Dash number or MS part or identifying number (PIN)												
	Spec MIL-PRF-26	Spec MIL-R-19365	Threaded rod 2/		Hexagonal nut		Lock washer 3/		Phosphor bronze						
			Part No.	Dash No.	Part No. 4/	Dash No.	Part No. 5/	Dash No.							
-29	RW29	RX29			MS35649	-284	MS35338	-137 or -156	-16						
-30	RW30		MS75009	-10											
-31	RW31														
-32	RW32	RX32													
-33	RW33	RX33	MS75009	-11	MS35650	-304	MS35338	-138 or -157	-17						
-34	RW34														
-35	RW35	RX35													
-36	RW36	RX36													
-37	RW37	RX37													
-38	RW38	RX38													
-39	RW39														
-47	RW47	RX47													

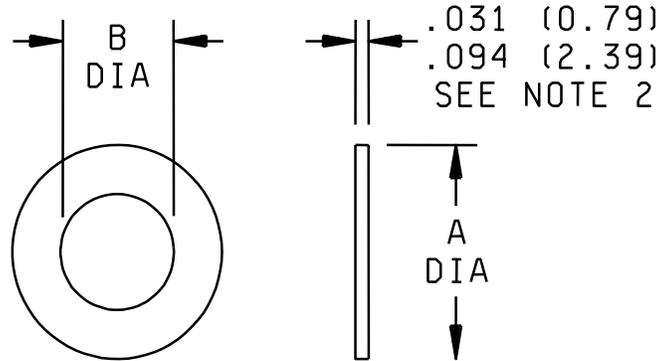
- 1/ The dash number added to the military-specification number constitutes the MS PIN of the assembly. The dash number is derived from the style number of the resistor; for example, MS75009-29 is derived from RW29 and RX29.
- 2/ Use of either pan head machine screw or threaded rod optional, where applicable.
- 3/ Use of either corrosion-resisting-steel or phosphor-bronze lock washer(s) is optional.
- 4/ Specification numbers are NASM35649 or NASM35650.
- 5/ Specification number is NASM35338.

NOTES:

1. Referenced documents shall be of the issue in effect on date of invitations for bid.
2. For design feature purposes, this specification sheet takes precedence over acquisition documents referenced herein.

FIGURE 1. Bracket assembly - Continued.

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Inches	mm	Inches	mm	Inches	mm	Inches	mm	Inches	mm
.015	.38	.094	2.39	.469	11.91	.688	17.48	1.000	25.40
.031	.79	.195	4.95	.500	12.70	.750	19.05	1.375	34.93

Dash No. <u>1/</u>	Mica washer dimension <u>2/</u>	
	A	B
-1	.469	.195
-2	.750	.195
-3	1.000	.500
-4	1.375	.688

1/ The dash number added to the military specification number constitutes the MS PIN; for example: MS75009-1.

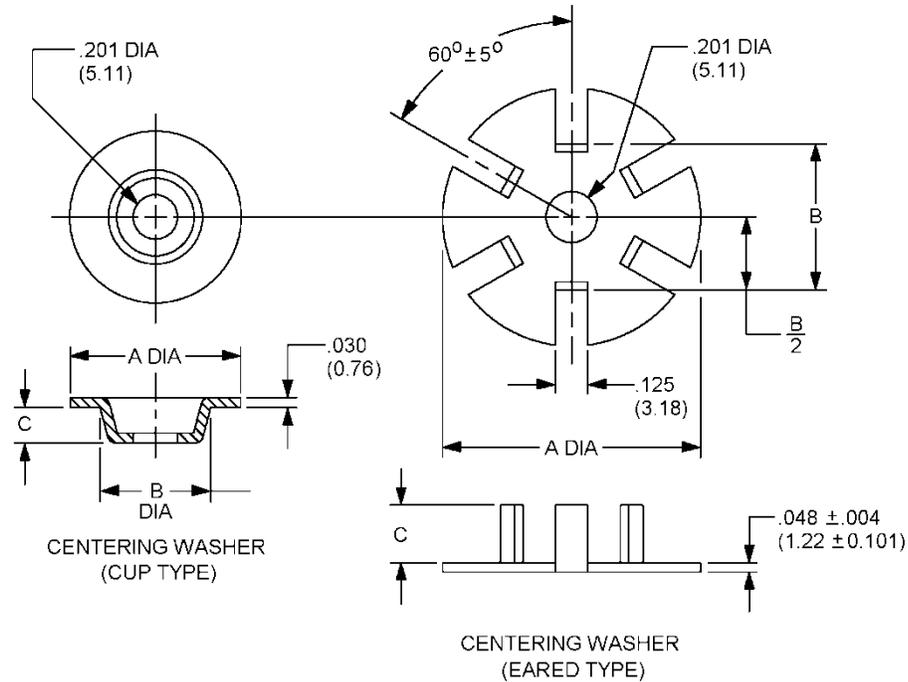
2/ Tolerance is +.015, -.000

NOTES

1. Dimensions are in inches. The washer may consist of several sheets to obtain minimum thickness.
2. Metric equivalents are given for general information only.
3. Referenced documents shall be of the issue in effect on date of invitations for bid.
4. For design feature purposes, this specification sheet takes precedence over acquisition documents referenced herein.

FIGURE 2. Mica washer.

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Inches	mm	Inches	mm	Inches	mm	Inches	mm	Inches	mm
.010	0.25	.045	1.14	.156	3.96	.463	11.76	.750	19.06
.031	0.79	.125	3.18	.250	6.35	.684	17.37	1.125	25.58

Dash no. <u>1/</u>	Type	Centering washer dimension		
		A	B	C
-5	Cup	.750	.463 <u>2/</u>	.156
-6	Eared	1.125	.684	.250 <u>3/</u>

1/ The dash number added to the MS military specification number constitutes the MS part number; for example: MS75009-1.

2/ Tolerance is ± 0.005 , -0.000

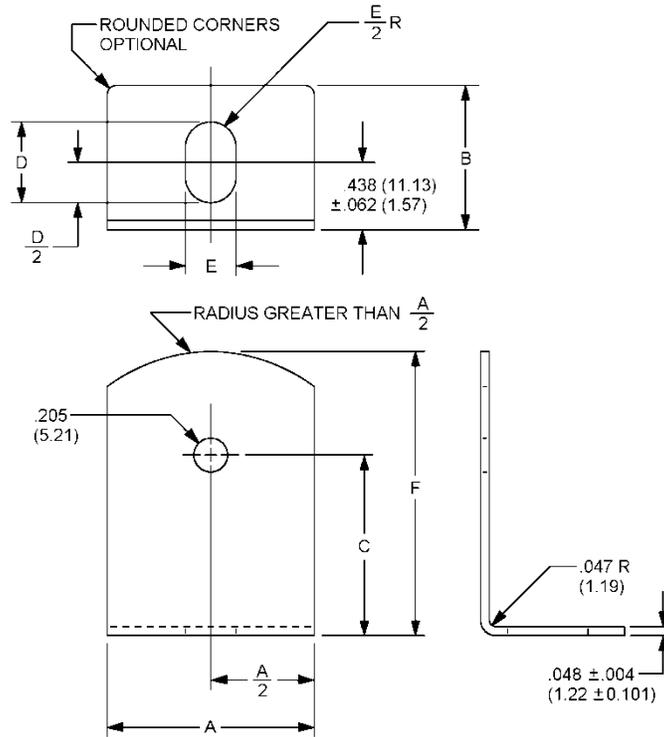
3/ Tolerance is ± 0.032

NOTE:

1. Dimensions are in inches. Metric equivalents are given for general information only.
2. Unless otherwise specified, tolerance is ± 0.010 (0.25 mm) on decimals.
3. Centering washer shall be steel conforming to QQ-S-698, ASTM-A109/A109M, ASTM A1008/A1008M, or SAE-AMS5040, respectively.
4. Cadmium plated in accordance with AMS-QQ-P-416, Type II, Class 3.
5. Referenced documents shall be of the issue in effect on date of invitations for bid.
6. For design feature purposes, this specification sheet takes precedence over acquisition documents referenced herein.

FIGURE 3. Centering washer.

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Inch	mm	Inch	mm	Inch	mm	Inch	mm	Inch	mm
.031	0.79	.281	7.14	.562	14.27	1.000	25.40	1.500	38.10
.062	1.57	.438	11.13	.750	19.05	1.25	31.75	1.750	44.43
.219	5.56	.500	12.70	.875	22.23	1.375	34.93	2.125	53.98

Dash no. <u>1/</u>	Mounting bracket dimensions <u>2/</u>					
	A	B	C	D	E	F
-7	.500	.750	1.00	.438	.219	1.375
-8	.750	.750	1.250	.438	.219	1.750
-9	1.250	.875	1.500	.562	.281	2.125

1/ The dash number added to the military-specification number constitutes the MS PIN; for example: MS75009-1.

2/

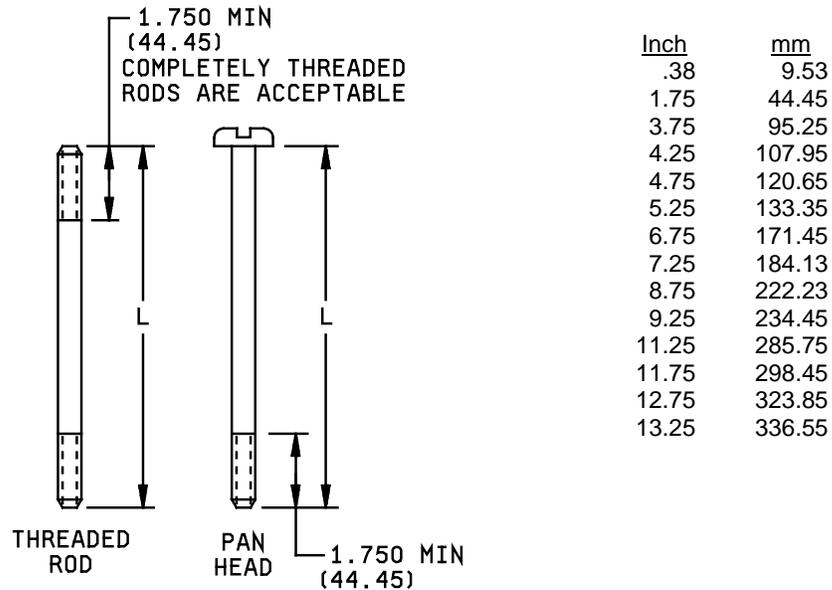
Dimension	A	B	C	D	F	E
Tolerance	$\pm .062$					$\pm .031$

NOTES

- Dimensions are in inches. Metric equivalents are given for general information only.
- Unless otherwise specified, tolerance is ± 0.005 (0.13 mm) on decimals.
- Mounting bracket shall be steel conforming to QQ-S-698, ASTM-A109/A109M, ASTM A1008/A1008M, or SAE-AMS5040, respectively.
- Cadmium plated in accordance with AMS-QQ-P-416, Type II, Class 3.
- Referenced documents shall be of the issue in effect on date of invitations for bid.
- For design feature purposes, this specification sheet takes precedence over acquisition documents referenced herein.

FIGURE 4. Mounting bracket.

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Pan head machine screw dash no. 1/	Threaded rod dash no. 1/	Dimensions		
		L 2/ (approx)		Screw thread
		Screw	Rod	
-18	-10	3.750	4.250	.164-32 UNC-2A #8
-19	-11	4.760	5.250	.190-32 UNF-2A #10
-20	-12	6.750	7.250	
-21	-13	8.750	9.250	
-22	-14	11.250	11.750	
-23	-15	12.750	13.250	

1/ The dash number added to the military-specification number constitutes the MS PIN; for example: MS75009-1.

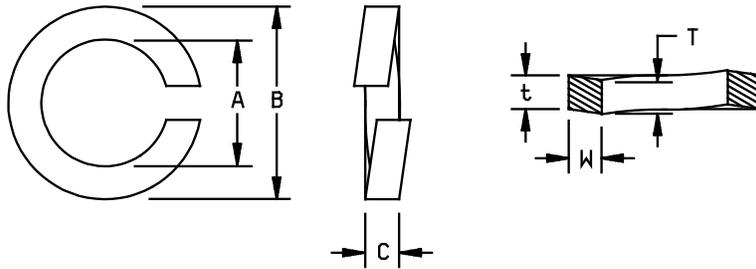
2/ When assembled, not less than 1.5 threads nor more than 0.38 inch of thread shall extend beyond each nut.

NOTES:

1. Dimensions are in inches. Metric equivalents are given for general information only.
2. Unless otherwise specified, tolerance is ± 0.005 (0.13 mm) on decimals.
3. Pan Head machine screws not covered by MS51957 and threaded rods shall be carbon-steel wire or carbon steel conforming to ASTM-A108, ASTM-A575, ASTM-A576, ASTM-A1008/A1008M, or ASTM-A675/A675M, respectively.
4. Threaded parts shall be in accordance with FED-STD-H28.
5. Cadmium plated in accordance with AMS-QQ-P-416, Type II, Class 3
6. Referenced documents shall be of the issue in effect on date of invitations for bid.
7. For design feature purposes, this specification sheet takes precedence over acquisition documents referenced herein.

FIGURE 5. Rods.

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PHOSPHOR-BRONZE LOCKWASHER

Inch	mm								
.040	1.02	.055	1.40	.168	4.27	.194	4.93	.337	8.56
.046	1.17	.062	1.57	.178	4.52	.205	5.21		
.047	1.19	.164	4.17	.190	4.83	.296	7.52		

Dash No. ^{1/}	Nominal size	Phosphor-bronze-lockwasher dimensions						
		A		B	$C = \frac{T+t}{2}$		W	
		Max	Min	Max	Max	Min	Min	
-16	#8	.164	.178	.168	.296	.046	.040	.055
-17	#10	.190	.205	.194	.337	.053	.047	.062

^{1/} The dash number added to the military-specification number constitutes the MS PIN; for example: MS75009-1.

NOTES:

1. Dimensions are in inches. Metric equivalents are given for general information only.
2. Unless otherwise specified, tolerance is ± 0.005 (0.13 mm) on decimals.
3. Referenced documents shall be of the issue in effect on date of invitations for bid.
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FIGURE 6. Lockwasher.

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Environmentally preferable material. Environmentally preferable materials should be used to the maximum extent possible to meet the requirements of this specification. As of the dating of this document, the U.S. Environmental Protection Agency (EPA) is focusing efforts on reducing 31 priority chemicals. The list of chemicals and additional information is available on their website <http://www.epa.gov/osw/hazard/wastemin/priority.htm>. Use of these materials should be minimized or eliminated unless needed to meet the requirements specified herein.

Amendment notations. The margins of this specification are marked with vertical lines to indicate modifications generated by this amendment. 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.

| Reference documents. This document references the following:

MIL-PRF-26	SAE-AMS5040
MIL-R-19365	
NASM15795	ASTM-A108
MS51957	ASTM-A109/A109M
QQ-P-416	ASTM A1008/A1008M
QQ-S-698	ASTM-A575
FED-STD-H28	ASTM-A576
NASM 35338	ASTM-A675/A675M
NASM 35649	
NASM 35650	

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

Preparing activity:
DLA - CC

(Project 5905-2014-045)

Review activities:
Army - AR
Navy - AS, MC, OS

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