

REV.
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AS21428

Form Approved
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WARNING

THIS DOCUMENT INCLUDES CADMIUM AS A PLATING MATERIAL. THE USE OF CADMIUM HAS BEEN RESTRICTED AND/OR BANNED FOR USE IN MANY COUNTRIES DUE TO ENVIRONMENTAL AND HEALTH CONCERNS. THE USER SHOULD CONSULT WITH LOCAL OFFICIALS ON APPLICABLE HEALTH AND ENVIRONMENTAL REGULATIONS REGARDING ITS USE.

THE REQUIREMENTS FOR ACQUIRING THE PRODUCT(S) DESCRIBED HEREIN SHALL CONSIST OF THIS SPECIFICATION SHEET AND THE ISSUE OF THE FOLLOWING SPECIFICATION LISTED IN THAT ISSUE OF THE DODISS SPECIFIED IN THE SOLICITATION: SAE AS7949.

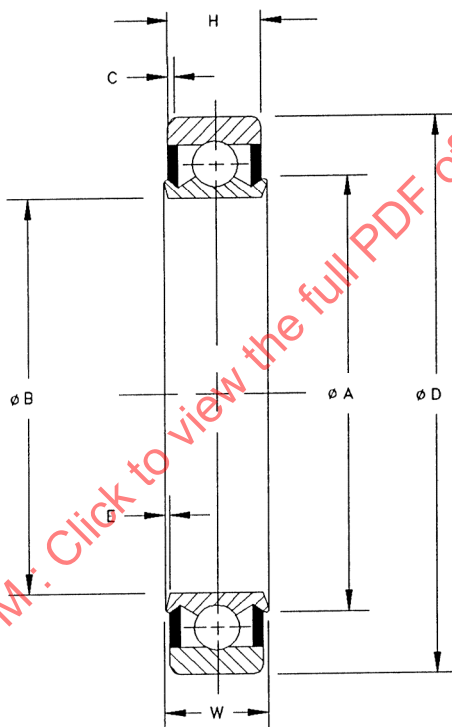
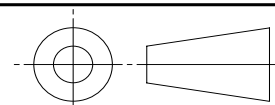


FIGURE 1



THIRD ANGLE PROJECTION



CUSTODIAN: SAE AIRFRAME CONTROL BEARINGS GROUP



AEROSPACE STANDARD

BEARING, BALL, AIRFRAME,
ANTI-FRICTION, EXTRA LIGHT DUTY,
PRECISION

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SHEET 1 OF 3

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ISSUED 1998-04 REVISED 2005-09

SAE AEROSPACE STANDARD																					
MS DASH NO.		BEARING PART NO. REF. ONLY		Ø B	BORE TOLERANCE		Ø D	OUTSIDE DIAMETER TOLERANCE		W	H	Ø A	E & C	WEIGHT POUNDS (APPROX)	RADIAL LIMIT LOAD RATING LB	THRUST LIMIT LOAD RATING LB	RADIAL LOAD RATING FOR AVERAGE LIFE OF 10,000 COMPLETE 90° CYCLES		7/		
		2/			1/ 2/					1/	1/	3/ 4/						CASE I	CASE II		
		BORE		+ .0000 - .0005		1.0625		+ .0000 - .0005		+ .0000 - .0025		CORNER CHAMFER 45°						1990	1820	2	
-38	MB538DD	.6250			1.1875														2050	1900	2
-39	MB539DD	.7500			1.3125														2110	1970	3
-40	MB540DD	.8750			1.5000														2170	2020	4
-41	MB541DD	1.0625			1.7500														2220	2130	4
-42	MB542DD	1.3125			2.0000														2260	2180	5
-43	MB543DD	1.5625																	2300	2220	6
-44	MB544DD	1.8125																	2340	2260	7
-45	MB545DD	2.0625																	2360	2280	8
-46	MB546DD	2.3125																			

1/ DIMENSIONS TO BE MET AFTER PLATING

2/ OUT-OF-ROUND TOLERANCES:

BORE:

FOR -38 THRU -43: +.0003, -.0008

FOR -44 THRU -46: +.0003, -.0011

3/ A RADIUS GIVING APPROXIMATELY THE SAME GRIP FOR STAKING THE BEARING AND MAINTAINING DIMENSION C IS ACCEPTABLE IN LIEU OF THE 45° FLAT SURFACE CHAMFER.

4/ A RADIUS GIVING APPROXIMATELY THE SAME FILLET CLEARANCE AND MAINTAINING DIMENSION E IS ACCEPTABLE IN LIEU OF THE 45° FLAT SURFACE CHAMFER.

5/ CASE I = LOAD IS FIXED WITH THE RESPECT TO OUTER RING.

CASE II = LOAD IS FIXED WITH RESPECT TO THE INNER RING.

6/ THESE RATINGS ARE FOR OPERATION UP TO 250° F FOR OPERATION UP TO 350° F, THE RATINGS SHALL BE REDUCED BY 20%.

7/ SPECIFIED LIMITS ARE FOR BEARINGS LUBRICATED WITH THE MIL-PRF-81322 GREASE. FOR BEARINGS LUBRICATED WITH MIL-PRF-23827 GREASE, THE TORQUE LIMIT SHALL BE THE SPECIFIED VALUE IN THE TABLE MULTIPLIED BY 1.2.

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