

**REV.  
A****AS27647**

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**AEROSPACE STANDARD**

BEARING, BALL, AIRFRAME,  
ANTI-FRICTION, EXTRA WIDE,  
DOUBLE ROW, INTERMEDIATE DUTY

**AS27647**  
SHEET 1 OF 3

**REV.  
A**

REV.  
A

AS27647

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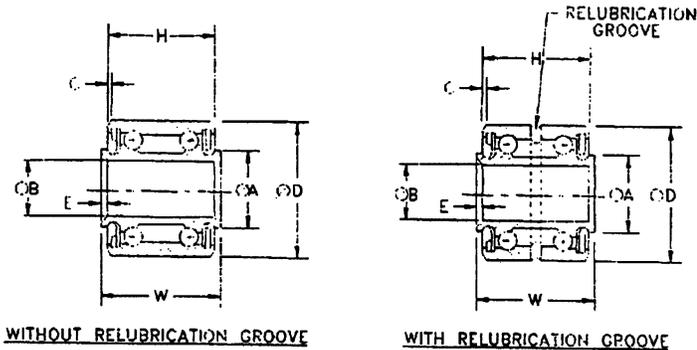


TABLE I. DIMENSIONS AND LOADS

MS DASH NO.	-B	-D		W	B	-A	E	C	RADIAL LIMIT LOAD RATING LBS	THRUST LIMIT LOAD RATING LBS	5/ RADIAL LOAD RATING (LBS) FOR AVERAGE LIFE OF 10,000 COMPLETE 90° CYCLES		APPROXIMATE WEIGHT (LBS)	MAXIMUM STARTING TORQUE (INCH-OZ)
	2/ BORE	OUTSIDE DIAMETER 2/ 1/	WIDTH INNER RING 1/	WIDTH OUTER RING 1/	SHOULDER DIAMETER INNER RING (APPROX)	4/ INNER RING CORNER CHAMFER	3/ OUTER RING CORNER CHAMFER	CASE I			CASE II			
	+ .0000	+ .0000	+ .000	+ .000	- .0002, -.0007									
	- .0005	- .0005	- .005	- .005	outer diameter: +.0005, -.0010.									
-4A	.2500	.6250	.562	.500	.338				.1400	.500	1050	960	.025	1
-4	.2500	.7500	.675	.750	.372			.016	.2700	.900	2070	1850	.04	1
-5	.3125	.8750	.938	.813	.466	.005			.5140	1600	2600	2320	.07	1
-6	.3750	1.0625	1.188	1.063	.570				.8440	2600	4220	3740	.12	2
-8	.5000	1.4375	1.500	1.3750	.709			.032	1.3520	4700	7610	6520	.29	2

1/ Dimensions to be met after plating.

2/ Out-of-round tolerances: Bore: +.0002, -.0007;

outer diameter: +.0005, -.0010.

3/ A radius giving approximately the same grip for staking the bearing in the housing is acceptable in lieu of a 45° flat surface chamfer.

4/ A radius giving approximately the same fillet clearance is acceptable in lieu of a 45° flat surface chamfer.

5/ Case I = Load is fixed with respect to the 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 are shall be reduced by 20%.