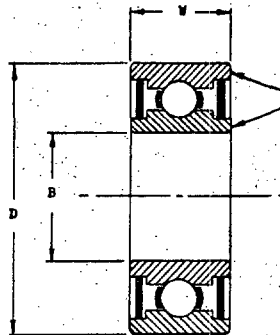


FED. SUP CLASS
3110MANUFACTURER'S NAME OR TRADE MARK AND MS
PART NO. SHALL BE PERMANENTLY MARKED ON
EITHER RING.

MS PART NO. (e)	FILN	BORE B		D OUTSIDE DIA.		WIDTH W INCH	MAX CORNER HEIGHT	(d) R RADIUS	CAPACITY		LIMIT CONTINUOUS RPM (c)
		M. M.	INCH	M. M.	INCH				(a) Co	(b) C	
MS 17108-1		12	.4724	32	1.2598	.6250	.040	.025	595	1050	10,000
MS 17108-2		15	.5906	35	1.3780	.6250	.040	.025	680	1180	10,000
MS 17108-3		17	.6693	40	1.5748	.6875	.040	.025	765	1280	10,000
MS 17108-4		20	.7874	47	1.8504	.8125	.060	.040	1370	2210	10,000
MS 17108-5		25	.9843	52	2.0472	.8125	.060	.040	1560	2420	10,000
MS 17108-6		30	1.1811	62	2.4409	.9375	.060	.040	2230	3350	10,000
MS 17108-7		35	1.3780	72	2.8346	1.0625	.060	.040	3050	4450	10,000
MS 17108-8		40	1.5748	80	3.1496	1.1875	.060	.040	4000	5640	10,000

TOLERANCES FOR BEARINGS IN .0001 INCH

INNER RING								OUTER RING									
BORE DIA M. M.		a		W	PARALLELISM OF SIDES	SIDE RUN-OUT WITH BORE	GROOVE PARALLELISM WITH SIDE	RADIAL RUNOUT MAX.	D OUTSIDE DIA M. M.		O.D. TOL.	W	PARALLELISM OF SIDES	O.D. SQUARE WITH SIDE RUNOUT	GROOVE PARALLELISM WITH SIDE	RADIAL RUNOUT MAX.	
OVER	INCL	MIN	MAX						OVER	INCL							
12	40	-2	+0	+0 -50	2	3	3	2	30 51	50 80	-2 -3	+0 +0	-50	2	3	2 4	2 3

RADIAL INTERNAL CLEARANCE (MFG. LIMITS)

BORE B M.M.	RADIAL PLAY .0001 IN.
10 - 17	5 - 9
18 - 29	6 - 10
30 - 40	7 - 12

(a) BASIC STATIC LOAD RATING IN POUNDS = THAT STATIC LOAD WHICH CORRESPONDS TO A TOTAL PERMANENT DEFORMATION OF BALL AND RACE AT THE MOST HEAVILY LOADED CONTACT OF 0.0001 OF THE BALL DIAMETER.

(b) RADIAL DYNAMIC LOAD IN POUNDS AT 3 1/3 RPM USING 10⁶ REVOLUTIONS B10 LIFE; AT OTHER SPEEDS INVERSE CUBE ROOT OF SPEED RATIO.

(c) RATED LOADS AND LIMIT RPM ARE BASED UPON GREASE LUBRICATION AND UPON BEARING OPERATING TEMPERATURE NOT EXCEEDING 325°F.

(d) R = MAXIMUM FILLET RADIUS FOR HOUSING, OR ON SHAFT WHICH BEARING RADIUS WILL CLEAR.

(e) MS PART NUMBERS -1 THRU -4 SHALL HAVE PRESSED STEEL RETAINERS. MS PART NUMBERS -5 THRU -8 SHALL HAVE PHENOLIC RETAINERS.

MATERIALS: RINGS STEEL, E52100 FED STD 66. BALLS STEEL, E51100 FED STD 66.

BREAK ALL SHARP EDGES .003/.005 UNLESS OTHERWISE SPECIFIED.

LUBRICATION PACK 30/50 PERCENT WITH GREASE SPECIFICATION MIL-G-81322. (A)

NOTE: THIS STANDARD TAKES PRECEDENCE OVER DOCUMENTS REFERENCED HEREIN. REFERENCED DOCUMENTS SHALL BE OF THE ISSUE IN EFFECT ON DATE OF INVITATIONS FOR BID.

P.A. AIR FORCE-II (A)		TITLE		MILITARY STANDARD	
Other Cust Army- AT Navy- AS		BEARING, BALL, ANNUAL, PRIMARILY FOR AIRCRAFT GENERATORS, TYPE II		MS17108	
PROCUREMENT SPECIFICATION MIL-B-22227		SUPERSEDES:		SHEET 1 OF 1	

DD FORM 672-1 (1 SEP 57) (REPLACES coordination)

PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE.

APPROVED 23 October 1959 REVISED (A) 20 Apr 70

THIS MILITARY STANDARD IS APPROVED BY THE DEPARTMENT OF DEFENSE
AND IS MANDATORY ON ALL ACTIVITIES. SELECTION FOR ALL NEW
DESIGNING AND DESIGN APPLICATIONS AND FOR REPETITIVE USE SHALL
BE MADE FROM THIS DOCUMENT.