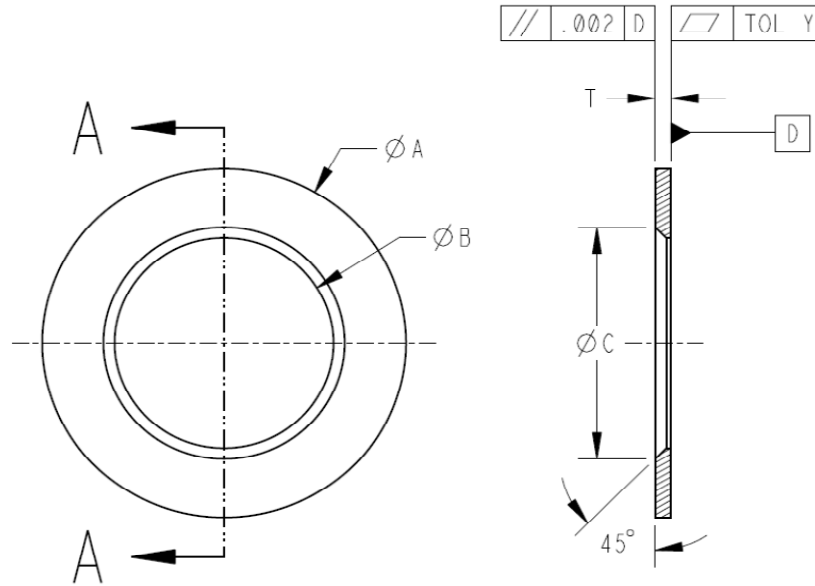


FED. SUPPLY CLASS

5310



COUNTERSUNK WASHER
(FOR USE UNDER BOLT HEAD)

SECTION A - A

TABLE I - DIMENSIONS

DASH NO	NOMINAL BOLT SIZE	ØA	ØB		ØC		T	Y TOLERANCE
			MAX	MIN	MAX	MIN		
-30266	.1900	.468	.195	.191	.266	.261	.065	.007
-30285	.1900	.468	.195	.191	.285	.275	.065	.007
-30290	.1900	.468	.195	.191	.290	.280	.065	.007
-4	.2500	.531	.255	.251	.350	.340	.065	.007
-5	.3125	.593	.318	.314	.412	.402	.065	.007
-6	.3750	.687	.380	.376	.507	.497	.080	.007
-7	.4375	.781	.443	.439	.569	.559	.080	.007
-8	.5000	.875	.505	.501	.632	.622	.080	.007
-9	.5625	.968	.568	.564	.694	.684	.080	.010
-10	.6250	1.062	.631	.627	.788	.778	.080	.010
-12	.7500	1.250	.756	.752	.913	.903	.080	.010
-14	.8750	1.437	.881	.877	1.038	1.028	.080	.010
-16	1.000	1.625	1.006	1.002	1.163	1.153	.109	.010
-18	1.1250	1.875	1.131	1.127	1.288	1.278	.109	.010
-20	1.2500	2.125	1.256	1.252	1.445	1.435	.109	.010
-22	1.3125	2.313	1.381	1.377	1.570	1.560	.109	.015
-24	1.5000	2.500	1.506	1.502	1.695	1.685	.109	.015

THIRD ANGLE PROJECTION	
PROCUREMENT SPECIFICATION	NONE

CUSTODIAN	NATIONAL AEROSPACE STANDARDS COMMITTEE
TITLE	WASHER, COUNTERSUNK, HIGH STRENGTH

REVISION	NEW
CLASSIFICATION PART STANDARD	NAS9923
	SHEET 1 OF 2

AEROSPACE INDUSTRIES ASSOCIATION OF AMERICA, INC.
1000 WILSON BLVD.
ARLINGTON, VA 22209

THIS DRAWING SUPERSEDES ALL ANTECEDENT STANDARD DRAWINGS FOR THE SAME
PRODUCT AND SHALL BECOME EFFECTIVE NO LATER THAN SIX MONTHS FROM THE LAST
REVISION DATE.

FORM 09-01

REVISION DATE:
ISSUE DATE: DECEMBER 22, 2011

MATERIAL: CRES - A286 (UNS S66286) CONFORMING TO THE CHEMISTRY OF AMS5525, AMS5731, AMS5732, AMS5737 OR AMS5853;
CRES - WEAR/GALLING RESISTANT (UNS S21800) BAR OR PLATE CONFORMING TO THE CHEMISTRY OF AMS5848, WORK HARDENED TO 160 KSI Ft_u, 130 KSI Ft_y MINIMUM

HEAT TREATMENT: DEVELOP BASIC MATERIAL PROPERTIES AS FOLLOWS, WITH CONTROLS PER AMS2759.
A286 CRES: 160-190 KSI Ft_u, PRECIPITATION HARDENED PER AMS5853
CRES - WEAR/GALLING RESISTANT: SOLUTION TREATED PER AMS5848 PRIOR TO WORK STRENGTHENING TO PRODUCE MATERIAL FREE FROM A CONTINUOUS CARBIDE NETWORK

FINISH: A286: PASSIVATE PER AMS2700, METHOD 1, CLASS 4
WEAR/GALLING RESISTANT CRES: PASSIVATE PER AMS2700 METHOD 1, TYPE 6 OR TYPE 7, CLASS 1
ALUMINUM COATING PER NAS4006

CODE: A286: E
WEAR/GALLING RESISTANT CRES: W
ALUMINUM COATING: A

EXAMPLE OF PART NUMBER:

NAS99234: WASHER, COUNTERSUNK, A286, 0.2500 NOM SIZE
NAS9923W4: WASHER, COUNTERSUNK, WEAR/GALLING RESISTANT CRES, 0.2500 NOM SIZE
NAS9923E30266A: WASHER, A286, 0.1900 NOM SIZE, 0.266 COUNTERSUNK "DIAMETER C", ALUMINUM COATING

<u>NAS9923</u>	<u>E</u>	<u>3</u>	<u>0266</u>	<u>A</u>	
				└─	FINISH CODE
			└─	└─	COUNTERSUNK "DIAMETER C" CODE
		└─	└─	└─	NOMINAL SIZE CODE
		└─	└─	└─	MATERIAL CODE
		└─	└─	└─	DOCUMENT NUMBER

NOTES:

- (1) REMOVE ALL BURRS AND SHARP EDGES.
- (2) DIMENSIONS IN INCHES.
- (3) SURFACE ROUGHNESS: ALL SURFACES 125 MICROINCHES Ra PER ASME B46.1 UNLESS OTHERWISE SPECIFIED.
- (4) PERFECT ORIENTATION AT MAXIMUM MATERIAL CONDITION FOR DIAMETERS. USE DATUM D AS PRIMARY DATUM.
- (5) THIS STANDARD TAKES PRECEDENCE OVER DOCUMENTS REFERENCED HEREIN.
- (6) MAGNETIC PERMEABILITY SHALL BE LESS THAN 2.0 (AIR= 1.0) FOR A FIELD STRENGTH H = 200 OERSTEDS USING A MAGNETIC PERMEABILITY INDICATOR PER ASTM A 342/A 342M, TEST METHOD 3.
- (7) REFERENCED DOCUMENTS SHALL BE THE ISSUE IN EFFECT ON DATE OF INVITATIONS FOR BID.
- (8) DIMENSIONING AND TOLERANCING PER ASME Y14.5M-1994.
- (9) TOLERANCES UNLESS OTHERWISE SPECIFIED: DECIMALS ± .010, ANGLES ± 1°.
- (10) THIS STANDARD TAKES PRECEDENCE OVER DOCUMENTS REFERENCED WITHIN.
- (11) THESE WASHERS ARE PRIMARILY FOR USE WITH BOLTS SHOWN ON NAS9921, NAS1351, NAS1352, NAS1003-1020, NAS1953-1970, NAS6303-6320 AND NAS6703-6720.

REVISION

NEW

NAS9923

SHEET 2



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