

FED. SUPPLY CLASS

5340

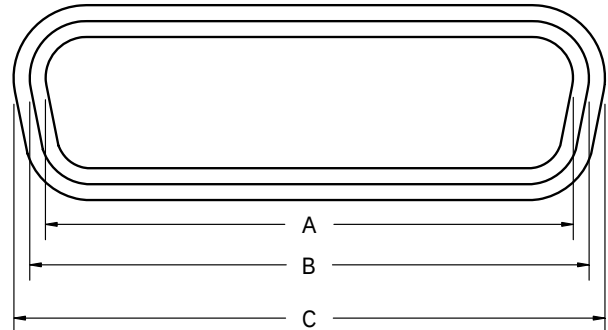
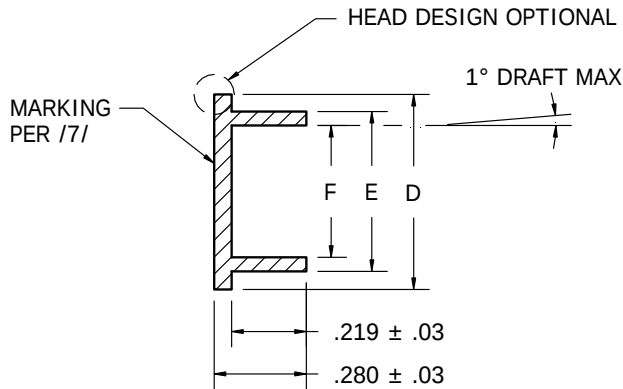


TABLE I – "D" TYPE CAPS DIMENSIONS

DASH NO.	A ± .010	B ± .010	C ± .031	D ± .031	E ± .010	F ± .010
9S	.627	.694	.794	.462	.362	.295
9P	.708	.775	.849	.512	.434	.367
15S	.955	1.022	1.122	.462	.362	.295
15P	1.040	1.107	1.177	.512	.436	.369
25S	1.495	1.562	1.662	.462	.362	.295
25P	1.568	1.635	1.735	.530	.430	.363
37S	2.143	2.210	2.310	.462	.362	.295
37P	2.216	2.283	2.383	.530	.430	.363
50S	2.049	2.116	2.216	.574	.474	.407
50P	2.112	2.179	2.279	.636	.536	.469

MATERIAL:

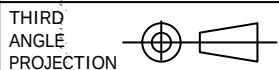
THE CAP SHALL BE MADE OF A PERMANENT ELECTRICALLY CONDUCTIVE OR STATIC DISSIPATIVE, NON-SLOUGHING MATERIAL. TOPICAL ANTISTATS SHALL NOT BE USED. THE MATERIAL SHALL HAVE A VOLUME RESISTANCE OF LESS THAN OR EQUAL TO 10^9 OHMS, MEASURED AS SPECIFIED. /2/

CODE:

THE PART NUMBER CONSISTS OF M5501/32 AND A DASH NUMBER TAKEN FROM TABLE I.

① COMPLETELY REVISED

THE INITIAL RELEASE OF THIS DOCUMENT SUPERSEDES MIL-PRF-5501/32, REVISION A, AMENDMENT 1. PART NUMBERS REMAIN M5501/32.



THIRD
ANGLE
PROJECTION

CUSTODIAN
NATIONAL AEROSPACE STANDARDS COMMITTEE

REVISION
1

PROCUREMENT
SPECIFICATION

TITLE

CLASSIFICATION
PART STANDARD

NAS847

**CAP, "D" TYPE, ESD PROTECTIVE, ELECTRICAL
CONNECTOR**

NAS M5501/32
SHEET 1 OF 2

EXAMPLE OF PART NUMBER:

M5501/32-15S

NOTES:

- (1) DIMENSIONS IN INCHES.
- (2) VOLUME RESISTANCE SHALL BE MEASURED AS FOLLOWS:
 - a. THE TEST APPARATUS SHALL CONSIST OF AN ELECTRODE, A CALIBRATED OHMMETER, AND A NON-OXIDIZING METAL SHEET. THE ELECTRODE SHALL BE CONSTRUCTED IN ACCORDANCE WITH ASTM F150, WITH THE FOLLOWING DIMENSIONAL EXCEPTIONS. THE ELECTRODE AND RUBBER INSERT DIAMETER SHALL BE $1.5 \pm .05$ INCHES AND THE TOTAL WEIGHT SHALL BE $2.0 \text{ LB} \pm .1 \text{ OZ}$. THE OHMMETER SHALL BE CAPABLE OF SUPPLYING AN OPEN CIRCUIT TEST VOLTAGE OF BETWEEN 5 AND 15 VOLTS AND SHALL BE CAPABLE OF MEASURING RESISTANCE BETWEEN 0 AND 1,000,000,000 OHMS. THE NON-OXIDIZING METAL SHEET SHALL BE FLAT, FREE OF ANY INSULATIVE COATINGS, AND AT LEAST 1/16 INCHES THICK.
 - b. ALL TEST SAMPLES SHALL BE PRECONDITIONED AT $10 \pm 2\% \text{ RH}$ AND $70 \pm 2 \text{ }^{\circ}\text{F}$ FOR 24 HOURS PRIOR TO TESTING IN THE SAME ENVIRONMENT.
 - c. RESISTANCE MEASUREMENTS SHALL BE MADE BY LAYING THE TEST CAP ON THE METAL SHEET (OPEN-SIDE UP), FILLING THE CAP LEVEL WITH A CONDUCTIVE MATERIAL SUCH AS FOAM OR METAL SHOT (#6 OR FINER), AND PLACING THE ELECTRODE ON TOP. ENSURE THE ELECTRODE CONTACTS BOTH THE FILLER MATERIAL AND THE EDGE OF THE CAP. EACH MEASUREMENT SHALL BE MADE BY CONNECTING THE LEADS OF THE OHMMETER TO THE TOP OF THE ELECTRODE AND THE METAL PLATE AND APPLYING THE TEST VOLTAGE. THE RESISTANCE OF THE CAP SHALL BE AS SPECIFIED.
- (3) SAMPLING/TESTING – ONE CAP SHALL BE SELECTED AT RANDOM PER 1,000 OF EACH SIZE PURCHASED. WHEN LESS THAN 1,000 CAPS ARE PURCHASED, ONE SAMPLE SHALL BE SELECTED AT RANDOM FOR TESTING. FOR PURCHASED CAPS HAVING A DIMENSION "A" OF LESS THAN 1.5 INCHES, A CAP FROM THE SAME LIST HAVING A DIMENSION GREATER THAN 1.5 INCHES SHALL BE USED.
- (4) THIS STANDARD TAKES PRECEDENCE OVER DOCUMENTS REFERENCED HEREIN.
- (5) ELECTRICALLY CONDUCTIVE OR STATIC DISSIPATIVE MATERIAL IS DEFINED AS HAVING A VOLUME RESISTANCE OF LESS THAN OR EQUAL TO 10^9 OHMS.
- (6) RESISTANCE TO SLOUGHING/CRAYONING – WHEN RUBBED BRISKLY AGAINST A HARD, FLAT LAMINATED SURFACE, THE CAPS SHALL EXHIBIT NO TENDENCY TO SLOUGH OR MARK THE SURFACE IN A MANNER SIMILAR TO A CRAYON.
- (7) MARKING – MANUFACTURER NAME; EIA RS-471 ELECTROSTATIC DISCHARGE SENSITIVE SYMBOL PER ASTM D5445, SYMBOL 28, AND PART NUMBER SHALL BE MARKED ON THE OUTER FACE OF THE CAPS.
- (8) UNLESS OTHERWISE SPECIFIED, PART INVENTORY MANUFACTURED TO PREVIOUS REVISIONS OF THE APPLICABLE DRAWING OR SPECIFICATION MAY BE PROCURED AND USED UNTIL STOCK IS DEPLETED.
- (9) UNLESS OTHERWISE SPECIFIED HEREIN, REFERENCED DOCUMENTS SHALL BE THE ISSUE IN EFFECT ON DATE OF MANUFACTURE. HOWEVER, EXISTING MATERIAL INVENTORY CERTIFIED TO A PREVIOUS REVISION OF THE APPLICABLE MATERIAL SPECIFICATION(S) IS ACCEPTABLE FOR USE UNTIL DEPLETION.
- (10) DIMENSIONING AND TOLERANCING PER ANSI Y14.5M-1982.



REVISION
1
NAS M5501/32
SHEET 2

