

MILITARY SPECIFICATION SHEET

CONNECTORS, ELECTRICAL, PRINTED WIRING BOARD
 RECEPTACLE, CARD INSERTION, CONTACT SPACING (0.050), TYPE AD

This specification is approved for use by all Departments and Agencies of the Department of Defense.

The complete requirements for procuring the connectors described herein shall consist of this document and the latest issue of Specification MIL-C-21097.

TYPE AD CONNECTORS SHALL NOT BE USED IN AIRBORNE EQUIPMENT

NOT FOR USE IN NEW
 DESIGNS OF ARMY EQUIPMENT

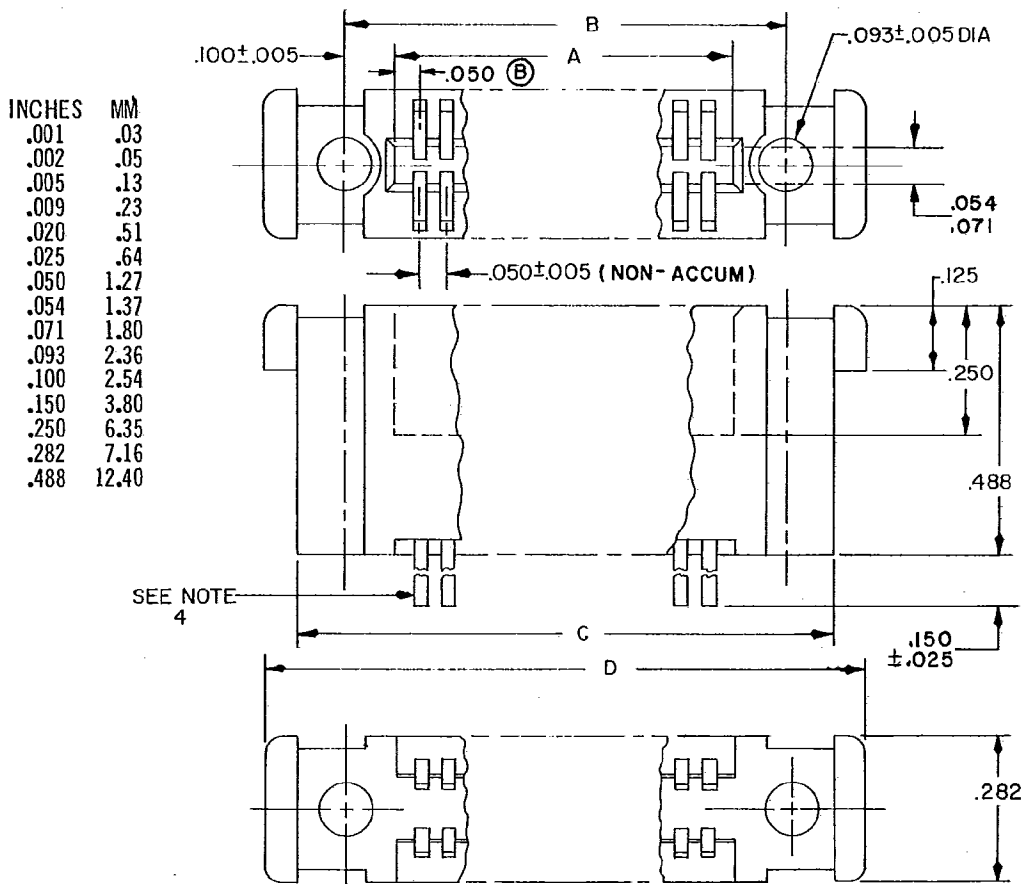
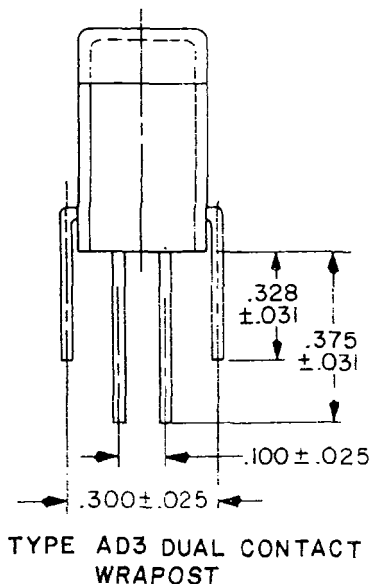
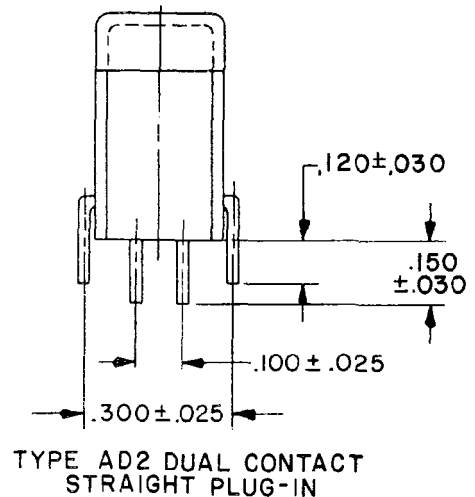
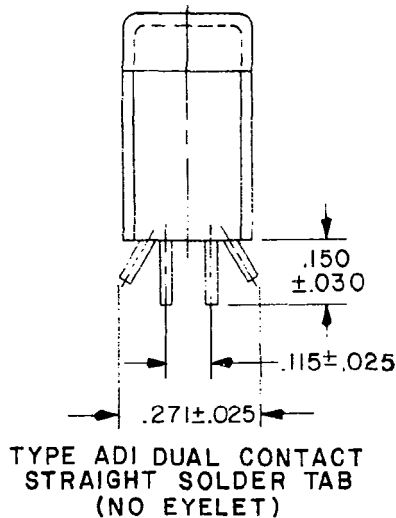
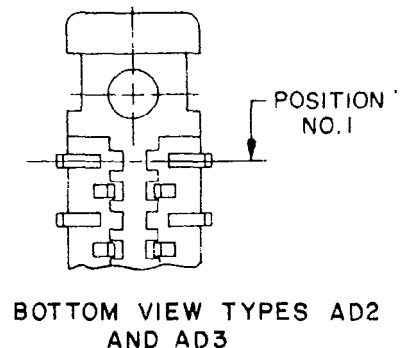
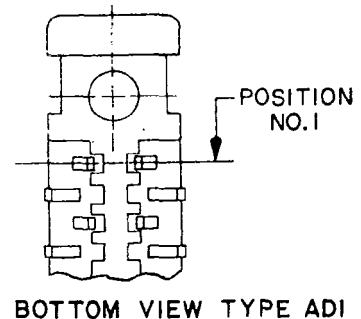


FIGURE 1. Type AD connector.

ⓑ denotes changes



INCHES	MM
.025	.64
.030	.76
.031	.74
.068	1.73
.094	2.39
.100	2.54
.115	2.92
.120	3.05
.125	3.18
.150	3.81
.300	7.62
.328	8.33
.375	9.53



NOTES:

1. Dimensions are in inches.
2. Unless otherwise specified, tolerance is $\pm .010$ (.25 mm) for three place decimals.
3. Metric equivalents (to the nearest .01 mm) are given for general information only and are based upon 1 inch = 25.4 mm.
4. Contact terminations shall be $.010 \pm .001$ (.25 $\pm$.03 mm) thickness and $.020 \pm .002$ (.51 $\pm$.05 mm) width.
5. Slot shall accept the following thickness printed wiring board size 2 - .054 (1.37 mm) to .071 (1.80 mm).

(B) FIGURE 1. Type AD connector - Continued.

REQUIREMENTS:

Dimensions and configuration: See figure 1 and table I.

Contact current rating: 1.0 ampere.

Spring contact material: Beryllium copper conforming to QQ-C-533 or QQ-C-530 and shall be gold plated, type II, class 1 of MIL-G-45204.

Individual contact separation: 1/2 oz.

Individual contact separation after durability: 1/2 oz.

Wiring: Connectors shall be wired using #30 AWG wire.

Part number: Consists of the letter "M", the basic document number of this specification sheet, and a dash number taken from table I.

TABLE I. Connectors, electrical, printed wiring board receptacle, card insertion, contact spacing (0.050), type AD, class b.

Dash number	Style	Type	Dimensions (inches) 1/			
			A $\pm .005$ ($\pm .13$)	B $\pm .010$ ($\pm .25$)	C $\pm .010$ ($\pm .25$)	D $\pm .010$ ($\pm .25$)
01	06	AD1	.350	.550	.725	.850
02		AD2	(8.89)	(13.97)	(18.42)	(21.59)
03		AD3				
04	07	AD1	.400	.600	.775	.900
05		AD2	(10.16)	(15.24)	(19.69)	(22.86)
06		AD3				
07	08	AD1	.450	.650	.825	.950
08		AD2	(11.43)	(16.51)	(20.96)	(24.13)
09		AD3				
10	09	AD1	.500	.700	.875	1.000
11		AD2	(12.70)	(17.78)	(22.23)	(25.4)
12		AD3				
13	10	AD1	.550	.750	.925	1.050
14		AD2	(13.97)	(19.05)	(23.50)	(26.67)
15		AD3				
16	11	AD1	.600	.800	.975	1.100
17		AD2	(15.24)	(20.32)	(24.77)	(27.94)
18		AD3				
19	12	AD1	.650	.850	1.025	1.150
20		AD2	(16.51)	(21.59)	(26.04)	(29.21)
21		AD3				
22	13	AD1	.700	.900	1.075	1.200
23		AD2	(17.78)	(22.86)	(27.31)	(30.48)
24		AD3				
25	14	AD1	.750	.950	1.125	1.250
26		AD2	(19.05)	(24.13)	(28.58)	(31.75)
27		AD3				
28	15	AD1	.800	1.000	1.175	1.300
29		AD2	(20.32)	(25.4)	(29.85)	(33.02)
30		AD3				

See footnote at end of table.

TABLE I. Connectors, electrical, printed wiring board receptacle, card insertion, contact spacing (0.050), type AD, class b. - Continued

Dash number	Style	Type	Dimensions (inches) 1/			
			A ± .005 (±.13)	B ± .010 (±.25)	C ± .010 (±.25)	D ± .010 (±.25)
31	16	AD1	.850	1.050	1.225	1.350
32		AD2	(21.59)	(26.67)	(31.12)	(34.30)
33		AD3				
34	17	AD1	.900	1.100	1.275	1.400
35		AD2	(22.86)	(27.94)	(32.39)	(35.56)
36		AD3				
37	18	AD1	.950	1.150	1.325	1.450
38		AD2	(24.13)	(29.21)	(33.66)	(36.83)
39		AD3				
40	19	AD1	1.000	1.200	1.375	1.500
41		AD2	(25.4)	(30.48)	(34.93)	(38.10)
42		AD3				
43	20	AD1	1.050	1.250	1.425	1.550
44		AD2	(26.67)	(31.75)	(36.20)	(39.37)
45		AD3				
46	21	AD1	1.100	1.300	1.475	1.600
47		AD2	(27.94)	(33.02)	(37.47)	(40.64)
48		AD3				
49	22	AD1	1.150	1.350	1.525	1.650
50		AD2	(29.21)	(34.30)	(38.74)	(41.91)
51		AD3				
52	23	AD1	1.200	1.400	1.575	1.700
53		AD2	(30.48)	(35.56)	(40.01)	(43.18)
54		AD3				
55	24	AD1	1.250	1.450	1.625	1.750
56		AD2	(31.75)	(36.83)	(41.38)	(44.45)
57		AD3				
58	25	AD1	1.300	1.500	1.675	1.800
59		AD2	(33.02)	(38.10)	(42.55)	(45.72)
60		AD3				

1/ Millimeters are in parentheses.

Custodians:

Army - EL
Navy - EC
Air Force - 17

Preparing activity:

Navy - EC

Agent:

DSA - ES

Review activities:

Army - MI
Navy - AS, OS
DSA - ES

(Project 5935-1924-2)

User activities:

Army - MU, ME, AV, AT, WC
Navy - SH, MC