

INCH-POUND

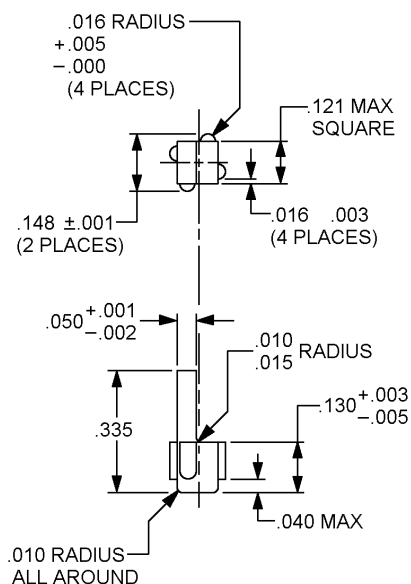
MIL-DTL-55302/78D
w/AMENDMENT 2
12 September 2012
SUPERSEDING
MIL-DTL-55302/78D
w/AMENDMENT 1
26 July 2010

DETAIL SPECIFICATION SHEET

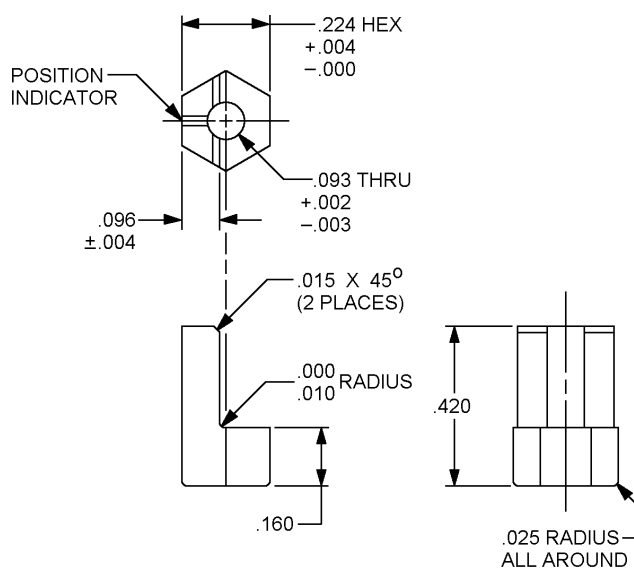
CONNECTORS, PRINTED CIRCUIT SUBASSEMBLY AND ACCESSORIES: KEY, POLARIZING, CONNECTORS, ELECTRICAL PRINTED WIRING BOARDS

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

The requirements for acquiring the product described herein shall consist of this specification sheet and MIL-DTL-55302.



Square polarization



Hex polarization

NOTES:

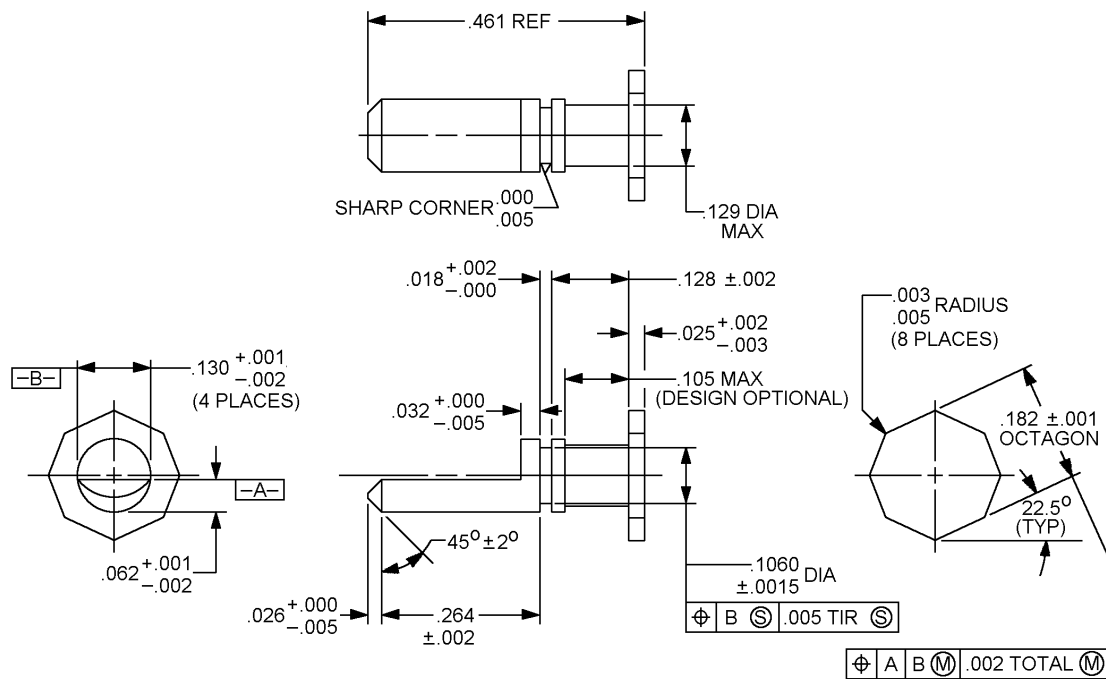
1. Material: Glass filled acetal plastic in accordance with ASTM D6778.
2. See MIL-DTL-55302/75 and MIL-DTL-5302/166 through MIL-DTL-55302/170.
3. Patent number 3,611,272

NOTES:

1. Material: In accordance with L-P-410 (nylon 6/10)
2. See MIL-DTL-55302/72 and MIL-DTL-55302/73.
3. Patent number 3,582,867

FIGURE 1. Key polarizing.

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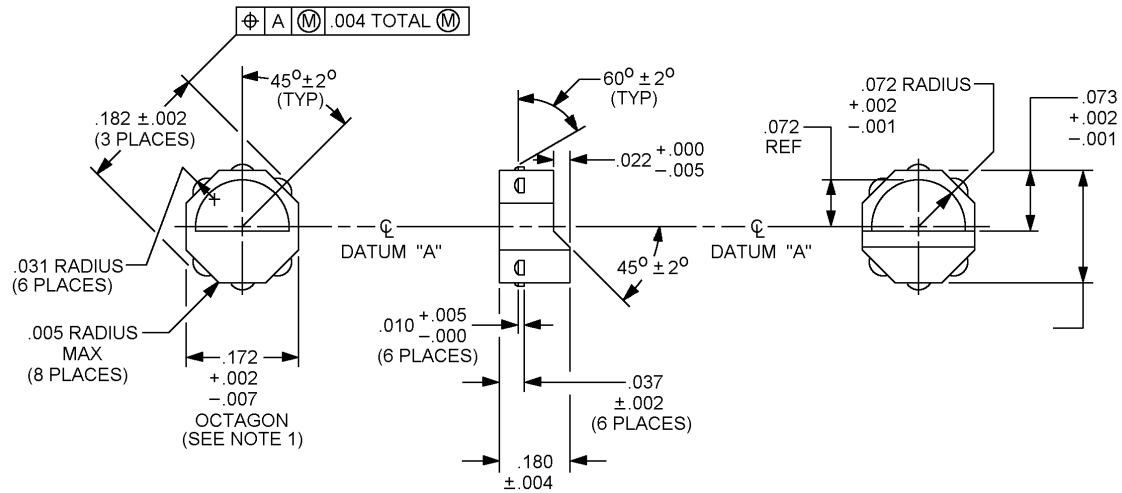
Polarization pin

NOTES:

1. All dimensions are before coating.
2. Material is aluminum see SAE AMS4150.
3. Coating: Anodize see SAE AMS2470.
4. Installs in MIL-DTL-55302/76.
5. Patent number 3,714,617

FIGURE 1. Key polarizing - Continued.

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NOTES:

1. Indicated dimension applies for indicated length.
2. Material is in accordance with L-P-410 (nylon 6/6).
3. Installs in MIL-DTL-55302/77.

Bushing, polarization, octagon, molded

Inches	mm	Inches	mm	Inches	mm	Inches	mm	Inches	mm
.001	0.03	.018	0.46	.050	1.27	.121	3.07	.182	4.62
.002	0.05	.022	0.56	.058	1.47	.128	3.25	.224	5.69
.003	0.08	.025	0.64	.062	1.57	.129	3.28	.264	6.71
.004	0.10	.026	0.66	.072	1.83	.130	3.30	.335	8.51
.005	0.13	.031	0.79	.073	1.85	.141	3.58	.420	10.67
.007	0.18	.032	0.81	.093	2.36	.148	3.76	.461	11.71
.010	0.25	.037	0.94	.096	2.44	.160	4.06		
.015	0.38	.039	0.99	.105	2.67	.172	4.37		
.016	0.41	.040	1.02	.106	2.69	.180	4.57		

NOTES:

1. Dimensions are in inches.
2. Metric equivalents are given for information only.
3. Unless otherwise specified, tolerances are ±.010 (0.25 mm).

FIGURE 1. Key polarizing - Continued.

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Requirements:

Dimensions and configuration: See figure 1.

Material: See notes on figure 1.

Part or Identifying Number (PIN): M55302/78-(dash number from table I).

Used in connectors: See notes on figure 1.

TABLE I. Dash number and dimensions.

Dash number	Description
01	Hex, polarization
02	Square, polarization
03	Bushing, polarization
04	Pin, polarization

Patent numbers 3,582,867 and 3,611,272. The Government has a royalty free license under these patents for the benefit of manufacturers of the items either for the Government or for use in equipment to be delivered to the Government.

Retention of qualification requirements: Not applicable.

Qualification: Qualification is not required for this specification sheet.

First article testing (FAT): FAT shall be in accordance with MIL-DTL-55302, qualification inspection.

Amendment notations. The margins of this specification are marked with vertical lines to indicate where modifications from this amendment were made. This was done as a convenience only and the Government assumes no liability whatsoever for any inaccuracies in these notations. Bidders and contractors are cautioned to evaluate the requirements of this document based on the entire content irrespective of the marginal notations.

Referenced documents. In addition to MIL-DTL-55302, this document references the following:

MIL-DTL-55302/72
MIL-DTL-55302/73
MIL-DTL-55302/75
MIL-DTL-55302/76
MIL-DTL-55302/77
MIL-DTL-55302/166
MIL-DTL-55302/167
MIL-DTL-55302/168
MIL-DTL-55302/169
MIL-DTL-55302/170
L-P-410
ASTM D6778
SAE AMS2470
SAE AMS4150

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CONCLUDING MATERIAL

Custodians:
Air Force - 85
DLA - CC

Preparing activity:
DLA - CC

(Project 5935-2012-134)

Review activities:
Air Force - 19, 99

NOTE: The activities listed above were interested in this document as of the date of this document. Since organizations and responsibilities can change, you should verify the currency of the information above using the ASSIST Online database at <https://assist.dla.mil>.