

MIL-DTL-21097/11J
w/AMENDMENT 1
6 March 2019
SUPERSEDING
MIL-DTL-21097/11J
18 August 2005

CONNECTORS, ELECTRICAL, PRINTED WIRING BOARD
KEYS, POLARIZING

The requirements for acquiring the product described herein shall consist of this specification sheet and MIL-DTL-21097.



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<u>1/</u> Dash number	Size	Dimensions	
		A	B $\pm$.010 ($\pm$.25)
03	2	$\begin{matrix} +.004 \\ .109 - .003 \\ (+.10) \\ (2.77) \end{matrix}$ $\begin{matrix} (-.08) \end{matrix}$	$\begin{matrix} .271 \\ (6.88) \end{matrix}$
04	3	$\begin{matrix} +.005 \\ .135 - .003 \\ (+.13) \\ (3.43) \end{matrix}$ $\begin{matrix} (-.08) \end{matrix}$	$\begin{matrix} .271 \\ (6.88) \end{matrix}$

1/ Dash numbers 01, 02, 05 and 06 have been deleted from this specification sheet.

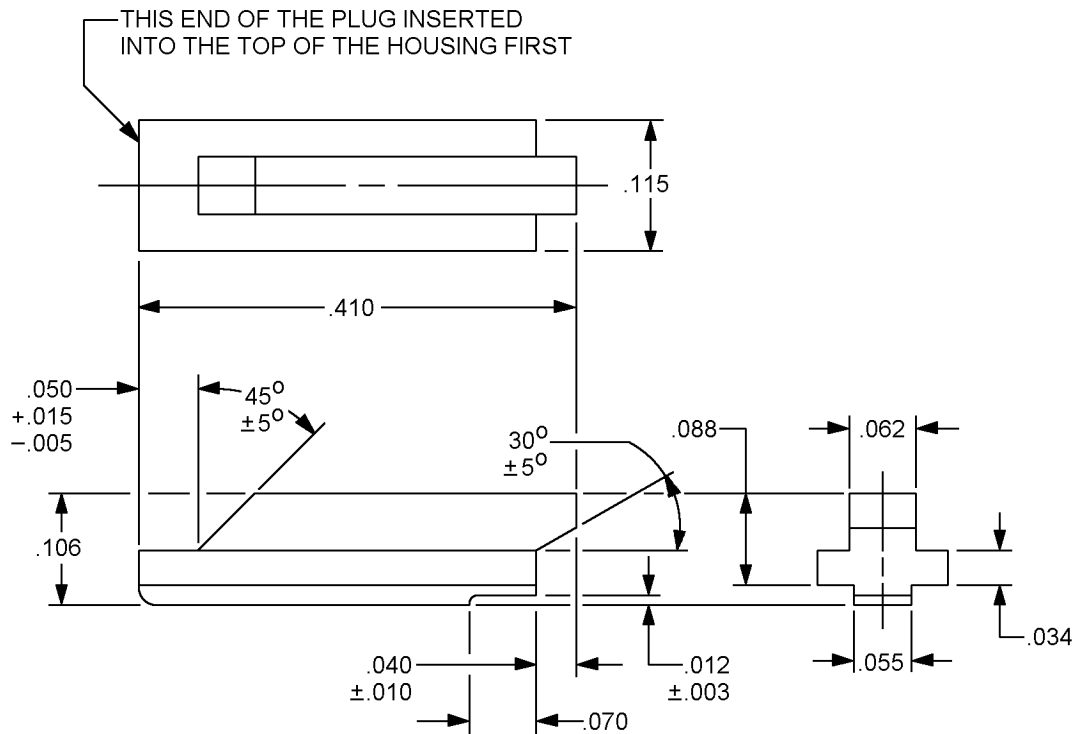
Inches	mm	Inches	mm
.005	0.13	.031	0.79
.008	0.20	.034	0.86
.010	0.25	.036	0.91
.015	0.38	.040	1.02
.016	0.41	.076	1.93
.017	0.43	.082	2.08
.020	0.51	.098	2.49
		.107	2.72

NOTES:

1. Dimensions are in inches.
2. Metric equivalents are given for information only.
3. Unless otherwise specified, tolerance is $\pm$.010 (0.25 mm) three place decimals.
4. Polarizing key is for use with connectors in accordance with to MIL-DTL-21097/2 or MIL-DTL-21097/4.
5. Material: Polyamide, type I, ASTM D4066; SAE-AMS-STD-595, color 23690, or natural (clear).

FIGURE 1. Polarizing keys for type CR connector – Continued.

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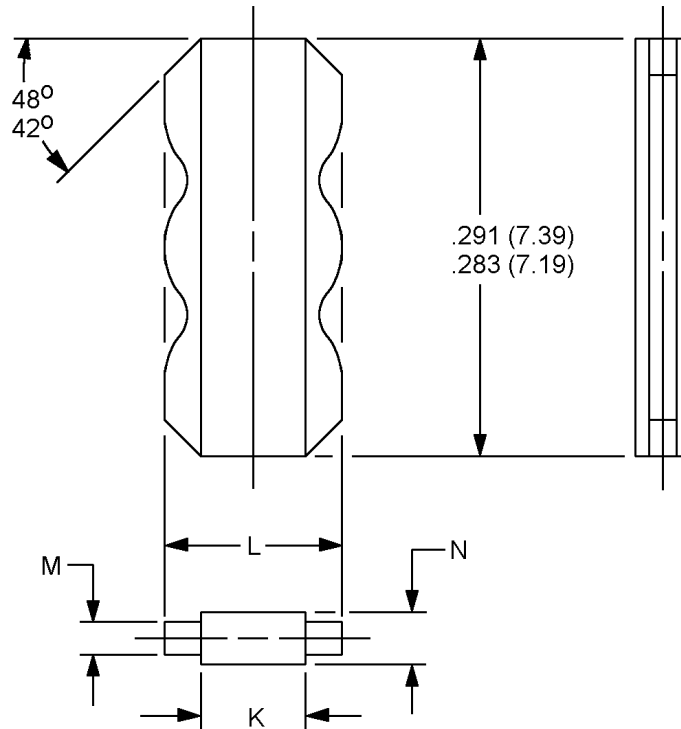
Inches	mm	Inches	mm
.003	0.08	.050	1.27
.005	0.13	.055	1.40
.010	0.25	.062	1.57
.012	0.30	.070	1.78
.015	0.38	.088	2.24
.034	0.86	.106	2.69
.040	1.02	.115	2.92
		.410	10.41

NOTES:

1. Dimensions are in inches.
2. Metric equivalents are given for information only.
3. Unless otherwise specified, tolerance is $\pm .005$ (0.13 mm) for three place decimals.
4. Polarizing key is for use with connectors in accordance with MIL-DTL-21097/13.
5. Material: Polyamide, class I, ASTM D4066; SAE-AMS-STD-595, color 23690, or natural (clear).

FIGURE 2. Polarizing key, Part or Identification Number (PIN). M21097/11-07, for type CR connectors.

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Dash number	Size	Dimensions			
		K	L	M	N
08	2	.070 (1.78)	.122 (3.10)	.022 (0.56)	.042 (1.07)
		.066 (1.68)	.118 (3.00)	.020 (0.51)	.036 (0.91)
09	3	.102 (2.59)	.154 (3.91)	.022 (0.56)	.042 (1.07)
		.098 (2.49)	.150 (3.81)	.020 (0.51)	.036 (0.91)
10	4	.133 (3.38)	.185 (4.70)	.022 (0.56)	.042 (1.07)
		.129 (3.28)	.181 (4.60)	.020 (0.51)	.036 (0.91)

NOTES:

1. Dimensions are in inches.
2. Metric equivalents are given for information only.
3. Serrations are permitted in this area provided the outer extremities are within tolerance limits.
4. Polarizing key is for use with connectors in accordance with MIL-DTL-21097/21 types A and AD.
5. Material: Polyamide, type I, ASTM D4066; SAE-AMS-STD-595, color 23690, or natural (clear).

FIGURE 3. Polarizing key, between contact positions, for types A and AD connectors.
PIN M21097/11-08, -09 and -10.

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REQUIREMENTS

Dimensions and configurations: See figures 1, 2, and 3.

Material: See figures 1, 2, and 3.

PIN: M21097/11-(dash number from figures 1, 2, and 3).

Amendment notations. The margins of this specification are marked with vertical lines to indicate modifications generated by this amendment. 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-21097, this document references the following:

SAE-AMS-STD-595/23690
MIL-DTL-21097/2
MIL-DTL-21097/4
MIL-DTL-21097/13
MIL-DTL-21097/21
ASTM D4066

CONCLUDING MATERIALS

Custodians:

Army – CR
Navy – EC
Air Force – 85
DLA – CC

Preparing activity:
DLA - CC

(Project 5935-2018-182)

Review activities:

Army – AR, AT, AV, CR4, MI
Navy – AS, MC, OS, SH

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>.