

INCH-POUND

MIL-DTL-21097/19D
18 August 2005
SUPERSEDING
MIL-C-21097/19C
10 October 1972

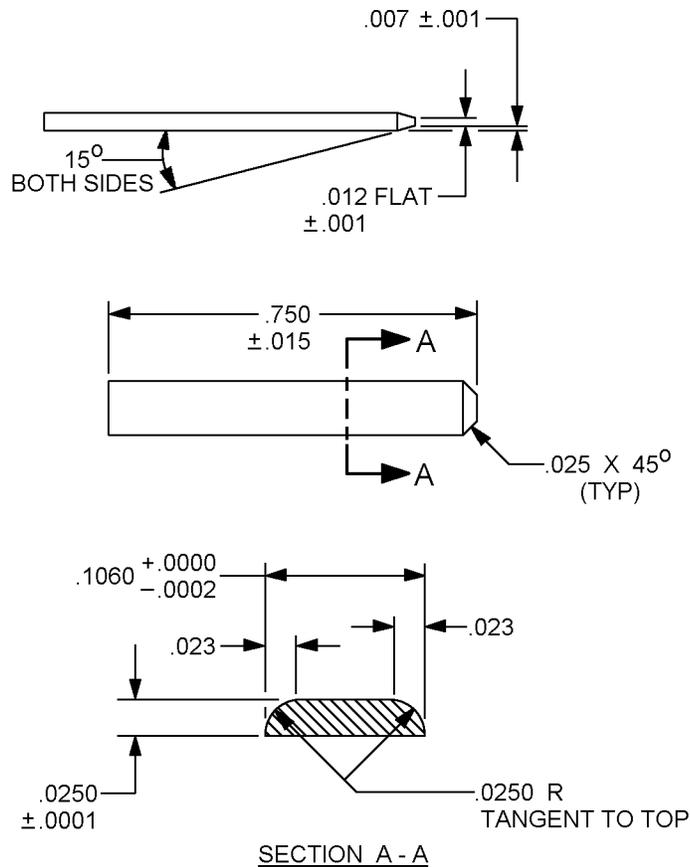
DETAIL SPECIFICATION SHEET

CONNECTORS, ELECTRICAL, PRINTED WIRING BOARD
BLADE SIMULATOR FOR MEASURING ENGAGEMENT AND SEPARATION
FORCES FOR TYPE CR CONTACTS

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-21097.

| Inches | mm |
|--------|-------|
| .0001 | .002 |
| .0002 | .005 |
| .001 | .03 |
| .007 | .18 |
| .012 | .30 |
| .015 | .38 |
| .023 | .58 |
| .025 | .64 |
| .1060 | 2.692 |
| .750 | 19.05 |

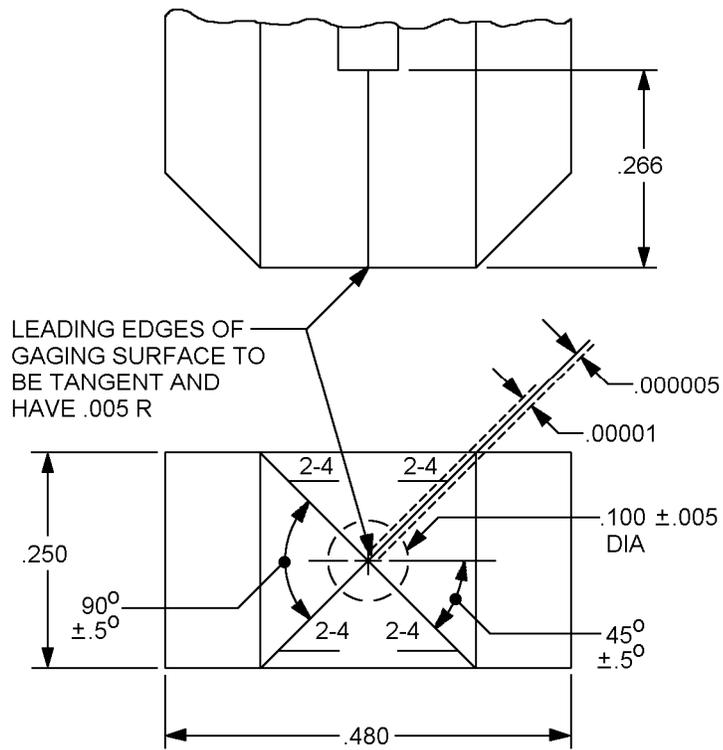


NOTES:

1. Dimensions are in inches.
2. Unless otherwise specified, tolerance is $\pm .005$ (.13 mm) for three place decimals.
3. Metric equivalents are given for information only.

FIGURE 1. Blade simulator for type C contacts.

| Inches | mm |
|---------|--------|
| .000005 | .00013 |
| .00001 | .0002 |
| .005 | .13 |
| .100 | 2.54 |
| .250 | 6.35 |
| .266 | 6.76 |
| .480 | 12.19 |



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3. Metric equivalents are given for information only

FIGURE 2. Gage tip, test fixture, contact separation force.

REQUIREMENTS

Blade Simulator:

Dimensions and configurations: See figure 1.

Use: With contacts in accordance with MIL-DTL-21097/16 and MIL-DTL-21097/17.

Material: "Carpenter" No. 610.

Hardness: Rockwell "C" 60-62.

Part or Identifying Number (PIN): M21097/19-01.

Gage Tip:

Dimensions and configurations: See figure 2.

Use: With connectors and contacts in accordance with MIL-DTL-21097/2, MIL-DTL-21097/3, MIL-DTL-21097/4, and MIL-DTL-21097/5.

Material: Medium alloy steel bonded titanium carbide.

Hardness: Rockwell "C" 67-69.

PIN: M21097/19-02

Changes from previous issue. Marginal notations are not used in this revision to identify changes with respect to the previous issue due to the extent of the changes.

Referenced documents. In addition to MIL-DTL-21097, this document references the following:

- MIL-DTL-21097/2
- MIL-DTL-21097/3
- MIL-DTL-21097/4
- MIL-DTL-21097/5
- MIL-DTL-21097/16
- MIL-DTL-21097/17

MIL-DTL-21097/19D

CONCLUDING MATERIALS

Custodians:

Army – CR
Navy – EC
Air Force – 11
DLA- CC

Preparing activity:

DLA - CC

(Project 5935-4505-010)

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 <http://assist.daps.dla.mil>.