

INCH-POUND

MIL-DTL-39030/22A
w/AMENDMENT 1
10 July 2015
SUPERSEDING
MIL-DTL-39030/22A
19 June 2013

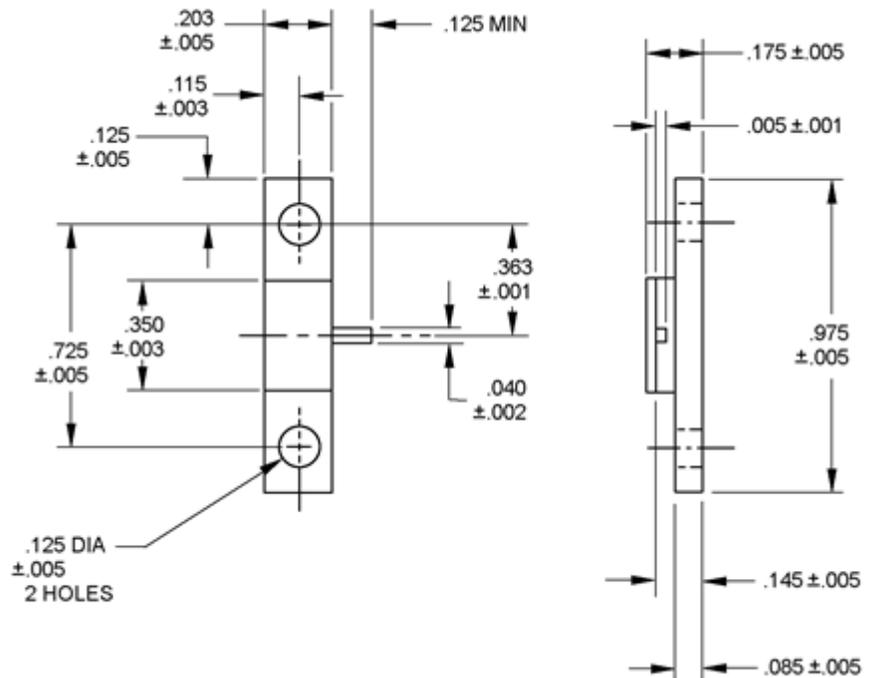
DETAIL SPECIFICATION SHEET

DUMMY LOAD, ELECTRICAL,
TYPE XIV (TAB CONTACT), STRIPLINE, HIGH POWER

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-39030.

Inches	mm
.001	0.03
.002	0.05
.003	0.08
.005	0.13
.040	1.02
.085	2.16
.115	2.92
.125	3.18
.145	3.68
.175	4.44
.203	5.16
.350	8.89
.363	9.22
.725	18.42
.975	24.76



NOTES:

1. Dimensions are in inches.
2. Metric equivalents are given for information only.

FIGURE 1. Dimensions and configurations.

AMSC N/A

FSC 5985



REQUIREMENTS:

Dimensions and configurations: See figures 1.

Electrical characteristics:

Operating frequency: DC to 4.0 GHz.

Voltage standing wave ratio (VSWR): 1.25:1, maximum.

Power:

Average: 40 watts.

Peak: 300 watts maximum at 10 microsecond pulse with a .1 percent duty cycle. Average power during peak power application shall not exceed maximum average power.

Note: At a maximum body temperature of +200°C.

Nominal characteristic impedance: 50 ohms.

Materials:

Equivalent industry standards may be used with the approval of the qualifying activity.

Body: Corrosion-resistant steel in accordance with ASTM A484/A484M or ASTM A582/A582M.

Finish: Gold plated in accordance with ASTM B488, type II, grade C, class 1.27 over copper flash.

Tab contact: Beryllium copper in accordance with ASTM B196/B196M, ASTM B197/B197M and ASTM B194.

Finish: The male pin shall be a minimum gold thickness of 50 micro inches (1.27 μ m) in accordance with ASTM B488, type II, grade C, class 1.27, over 50 micro inches (1.27 μ m) minimum of nickel in accordance with SAE-AMS-QQ-N-290, class 1, measured anywhere along the mating surface, for all series. The socket contact shall be a minimum of 50 micro inches (1.27 μ m) of gold in accordance with ASTM B488, type II, grade C, class 1.27, over 50 micro inches (1.27 μ m) minimum of nickel in accordance with SAE-AMS-QQ-N-290, class 1, including the ID, measured at a depth of .040 inch minimum. The plating on non-significant surfaces in the ID shall be of sufficient thickness to ensure plating continuity and uniform utility and protection. This plating may consist of an underplate only. A silver underplate shall not be permitted.

Weight: Not applicable.

Ambient temperature range:

Operating: 0°C to +65°C.

Nonoperating (storage): 0°C to +200°C.

Solderability: Method 208 of MIL-STD-202, the following details and exception shall apply:

- a. Number of terminations of each part to be tested: One contact.
- b. Special preparation of terminations: No wiping, cleaning, scraping, or abrasive cleaning of the contact shall be performed.
- c. Depth of immersion: The entire surface of the contact shall be covered.
- d. Method of mounting: The dummy load shall be mounted onto a heat sink.
- e. Examination of terminations: There shall be no evidence of pinholes and blistering.

Note: This test shall be preformed after the visual and mechanical inspection is qualification.

Part or Identifying Number (PIN): M39030/22-01.

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-39030, this document references the following:

MIL-STD-202	ASTM B196/B196M
ASTM A484/A484M	ASTM B197/B197M
ASTM A582/A582M	ASTM B488
ASTM B194	SAE-AMS-QQ-N-290

CONCLUDING MATERIAL

Custodians:

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

Preparing activity:

DLA - CC

(Project 5985-2015-026)

Review activities:

Army - AV, MI
Navy - AS, MC, OS, SH
Air Force - 11, 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 information above using the ASSIST Online database at <https://assist.dla.mil>.