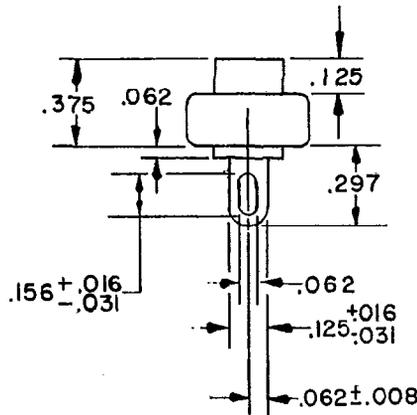
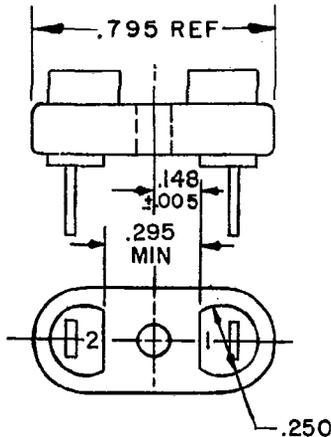
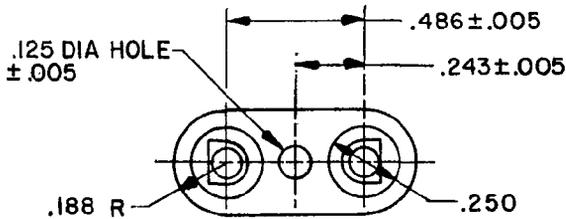


MILITARY SPECIFICATION SHEET

SOCKETS AND ACCESSORIES FOR PLUG-IN ELECTRONIC COMPONENTS  
 (CRYSTAL, TOP OR BOTTOM MOUNTING,  
 2 CONTACT, IN-LINE)

The complete requirements for procuring the sockets and accessories described herein shall consist of this document and the latest issue of Specification MIL-S-12883.

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



INCHES	MM
.005	.13
.008	.20
.016	.41
.031	.79
.062	1.57
.125	3.18
.148	3.76
.156	3.96
.188	4.78
.243	6.17
.250	6.35
.295	7.49
.297	7.54
.375	9.53
.486	12.34
.795	20.19

NOTES:

1. Dimensions are in inches.
2. Metric equivalents (to the nearest .01 mm) are given for general information only and are based upon 1 inch = 25.4 mm.
3. Unless otherwise specified, tolerance is ±.016 (.41 mm).
4. Marking shall be on the bottom or side surfaces.

FIGURE 1. Socket configuration.

Ⓔ denotes changes

FSC 5935

## REQUIREMENTS:

Dimensions, configuration, and descriptive information: See figure 1 and table I.

Float: With a pin of 0.050-inch diameter and 0.276-inch minimum length fully inserted in a socket contact, the contact shall be capable of free movement (float) within the contact cavity.

Insertion and withdrawal force:

Initial insertion force: 1.5 pounds minimum.

Initial withdrawal force: 6 pounds maximum.

Insulation resistance: 1,000 megohms minimum.

(Test-pin diameter: 0.050 ± 0.001 inch.)

Dielectric withstanding voltage:

Sea level: Test voltage: 1,200 volts root mean square (rms).

(Test-pin diameter: 0.050 ± 0.001 inch.)

High altitude: Test voltage: 500 volts rms.

(Test-pin diameter: 0.050 ± 0.001 inch.)

Contact resistance:

Average for all contacts: 0.015 ohm maximum.

Individual contacts: 0.03 ohm maximum.

Vibration: The test-gage shall be an approved crystal-holder type HC-6/U, in accordance with MIL-H-10056/2.

Shock: The test-gage shall be an approved crystal-holder type HC-6/U, in accordance with MIL-H-10056/2.

Durability: After the durability test, the insertion force and withdrawal force shall be 1.5 pounds minimum, 6 pounds maximum.

Test-gage details: See table II and MIL-S-12883.

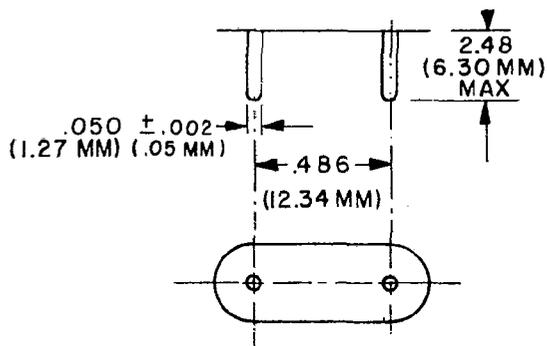
Mating-base dimensions: Sockets shall accommodate plug-in components having mating-base dimensions as shown on figure 2.

TABLE I. Military part numbers and descriptive information.

Military part number	Operating temperature °C	Insulating material	Old type designator
M12883/04-01	200	Ceramic	TS0205C01

TABLE II. Test-gage details.

Inspection	A (pin length)	B (pin dia)	M (test-end dia)	J (center-to-center)	N (probe-end dia)	G $\pm 1/64$ (gage length)	H (gage end $\pm 1/64$ radius)	No. of pins	Total weight of gage ( $\pm 5\%$ )
	<u>Inch</u>	<u>Inch</u>	<u>Inch</u>	<u>Inch</u>	<u>Inch</u>	<u>Inch</u>	<u>Inch</u>		<u>Ounces</u>
Insertion and withdrawal force - - -	0.276 $\pm 0.005$	0.0480 $\pm 0.0001$	---	0.486 $\pm .005$	---	55/64	3/16R	2	---
Contact resistance	0.276 $\pm 0.005$	0.0480 $\pm 0.0005$	---	0.486 $\pm .005$	---	55/64	3/16R	2	---
Contact retention	0.276 $\pm 0.005$	---	0.0480 $\pm 0.0001$	---	0.0520 $\pm 0.0001$	---	---	-	3
Durability	0.276 $\pm 0.005$	0.0520 $\pm 0.0001$	---	0.486 $\pm .005$	---	55/64	3/16R	2	---



## NOTES:

1. Dimensions are in inches.
2. Metric equivalents (to the nearest .01 mm) are given for general information only and are based upon 1 inch = 25.4 mm.
3. Metric equivalents are in parentheses.

FIGURE 2. Mating-base dimensions.

OPERATING INFORMATION:

Ratings (absolute maximum);

Voltage:

Sea level: 500 volts rms.

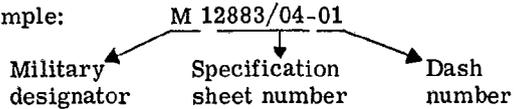
50,000 feet: 375 volts rms.

Current: 1 ampere.

Operating temperature: See table I.

Military part number: Consists of the letter "M", the basic number of this specification sheet, and an assigned dash number taken from table I.

Example:



ⓔ NOTE:

This specification is subject to NATO international standardization agreement NEPR 67 and accomodates NATO crystal styles NXT1, 2, 13, and 17. See NEPR 39.

Custodians:

Army - EL

Navy - EC

Air Force - 80

Preparing activity:

Army - EL

Agent:

DSA - ES

Review activities:

Army - MI, MU, ME, AT, AV

Navy - SH

Air Force - 11, 17, 70, 80

DSA - ES

(Project 5935-1772-2)

User activities:

Army - AT, WC

Navy - MC, AS, OS, CG

Air Force - 19