

INCH-POUND

MIL-PRF-22885/11J

1 November 2006

SUPERSEDING

MIL-PRF-22885/11H

1 March 2001

PERFORMANCE SPECIFICATION SHEET

SWITCH, PUSH BUTTON, ILLUMINATED, MODULAR SWITCH ASSEMBLIES FOR

This specification sheet 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-PRF-22885.

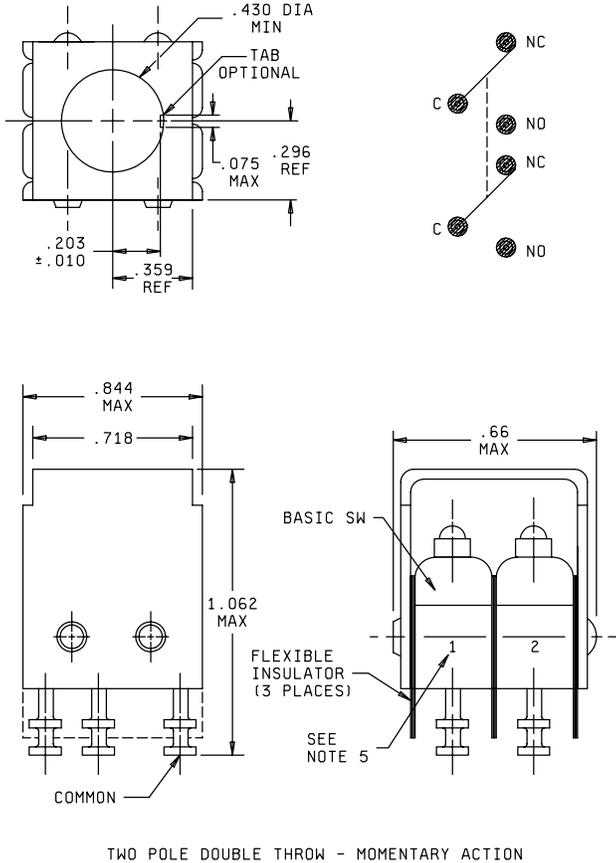
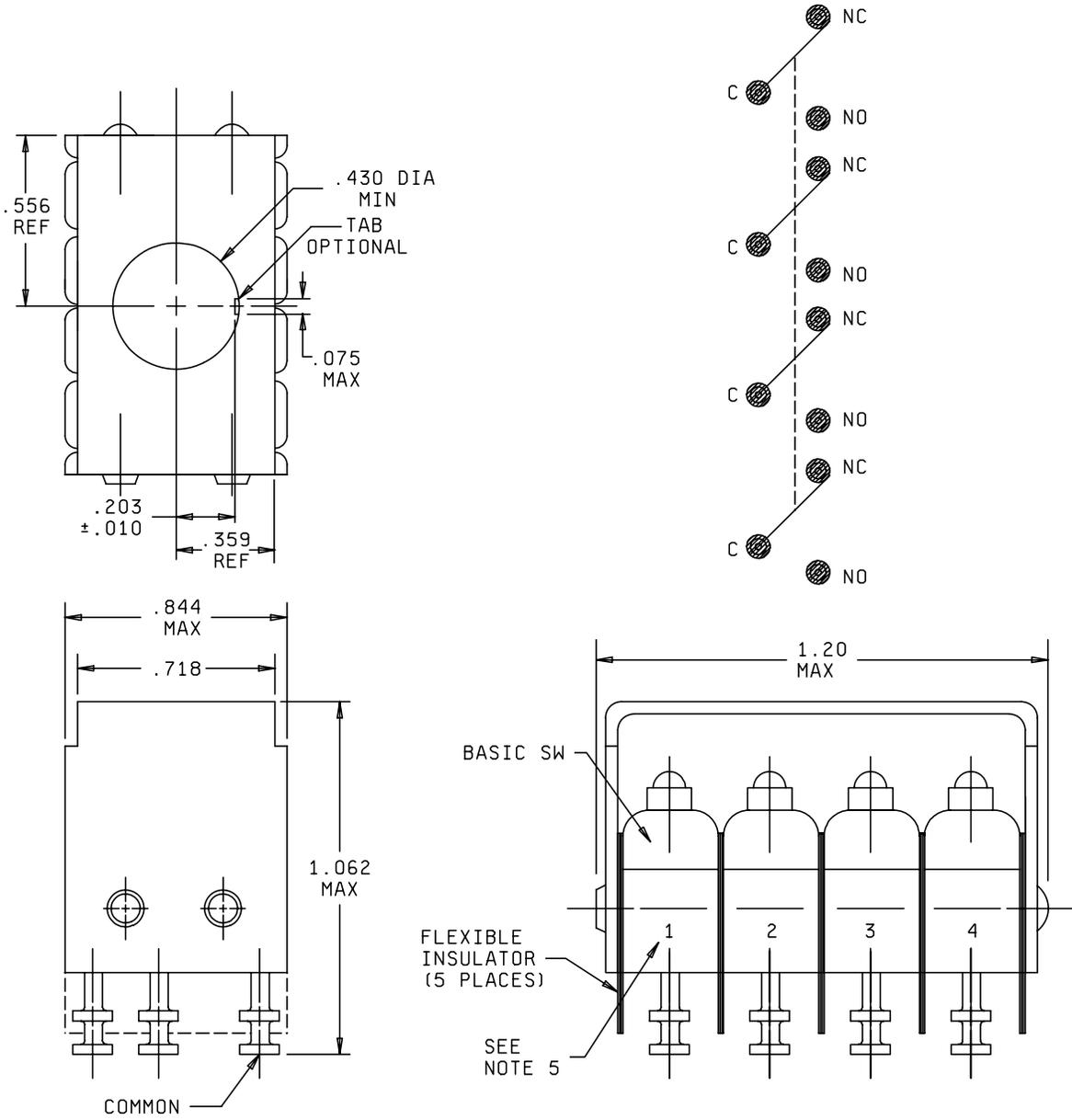
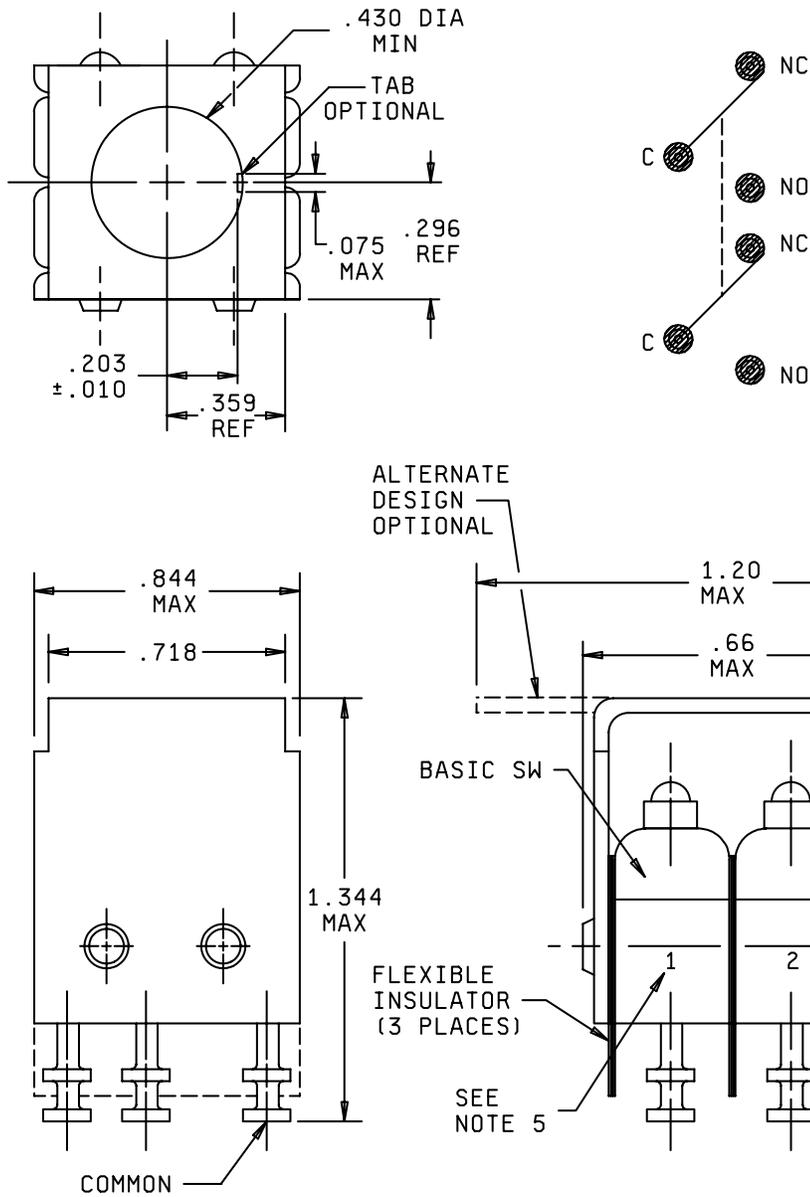


FIGURE 1. Dimensions and configurations.



FOUR POLE DOUBLE THROW - MOMENTARY ACTION

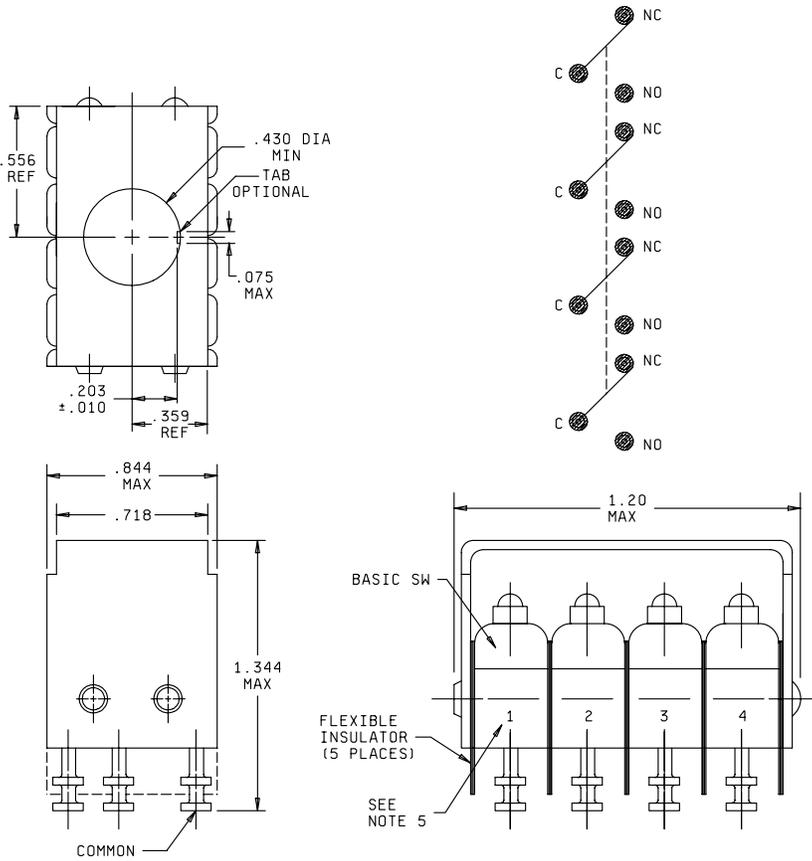
FIGURE 1. Dimensions and configurations - Continued.



TWO POLE DOUBLE THROW - ALTERNATE ACTION

FIGURE 1. Dimensions and configurations - Continued.

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FOUR POLE DOUBLE THROW - ALTERNATE ACTION

Inches	mm	Inches	mm
.010	0.25	.66	16.8
.075	1.91	.718	18.24
.203	5.16	.844	21.44
.296	7.52	1.062	26.97
.359	9.12	1.20	30.5
.430	10.92	1.344	34.14
.556	14.12		

NOTES:

1. Dimensions are in inches. Metric equivalents are given for general information only.
2. Unless otherwise specified, tolerance is ± 0.016 (0.41 mm).
3. The design configuration is optional within envelope dimensions shown.
4. Flat or cylindrical type terminal design is optional.
5. Basic switch number shall be permanently marked as shown.

FIGURE 1. Dimensions and configurations - Continued.

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REQUIREMENTS:

Dimensions and configuration: See figure 1. The switch modules shall be capable of mating with indicator lights in accordance with MIL-PRF-22885/10 and /16 to form the MIL-PRF-22885/9 and /15 illuminated pushbutton switches, respectively. Basic switch elements shall be permanently fixed to switch bracket or frame. The basic switches shall be category I switches in accordance with MIL-PRF-8805/2, part numbers MS25085-2 and -9, listed on QPL-8805, or category II parts with integral leaf actuators or marking changes, as required. The use of non-category I or II basic switches may be authorized provided that the qualification inspection includes all applicable tests of the complete MIL-PRF-22885 qualification inspection table.

Enclosure design: 1 (unseated).

Temperature characteristic: -55°C to +71°C.

Vibration grade: 2 (10 to 500 Hz, 10 g peak).

Operating: A (momentary action) and B (alternate action).

Weight:

2 pole switch: 1 ounce maximum.

4 pole switch: 1.2 ounces maximum.

Operating characteristics:

Operating force: Measurement to be taken at front of lens with switch module assembled to indicator light.

2PDT momentary: 4 pounds maximum.

4PDT momentary: 4 pounds maximum.

2PDT alternate: 6 pounds maximum.

4PDT alternate: 7 pounds maximum.

Dielectric withstanding voltage at reduced barometric pressure:

Altitude: 50,000 feet (MIL-STD-202, method 105, test condition B).

Electrical endurance: See tables I and II.

Low level life: Applicable to gold contact switches, PIN's M22885/11-05 through -08.

Logic level circuit: Applicable to gold contact switches, PIN's M22885/11-05 through -08.

Marking: Basic switch number and terminals shall be identified as shown on figure 1.

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Qualification inspection (group submission): Qualification is in accordance with MIL-PRF-22885/9 or /15 provided that qualified category I or II basic switches in accordance with MIL-PRF-8805/2 are utilized. the entire MIL-PRF-22885 qualification inspection table is applicable if non-category I or II basic switches are used in the assembly.

Part or Identifying Number (PIN): M22885/11- (dash number from table III).

TABLE I. Electrical ratings - silver contact switches.

Load	Sea level		50,000 feet
	28 V dc	115 V ac	28 V dc
	<u>amperes</u>	<u>amperes</u>	<u>amperes</u>
Resistive	5.0	5.0	5.0
Inductive	3.0	5.0	2.5
Lamp	2.4	1.5	2.4

TABLE II. Electrical ratings - gold contact switches.

Load	Sea level			50,000
	Power circuit 28 V dc	Logic level circuit 5 V dc	Low level circuit 30 mV maximum dc or peak ac	Power circuit 28 V dc
	<u>amperes</u>	<u>amperes</u>	<u>amperes</u>	<u>amperes</u>
Resistive	1.0	0.01	0.01	1.0
Inductive	0.5	---	---	0.5

TABLE III. Dash numbers.

Dash number ^{1/}	Circuit	Operation	Contacts
01	2PDT	Momentary	Silver
02	4PDT	Momentary	Silver
03	2PDT	Alternate	Silver
04	4PDT	Alternate	Silver
05	2PDT	Momentary	Gold
06	4PDT	Momentary	Gold
07	2PDT	Alternate	Gold
08	4PDT	Alternate	Gold

^{1/} These dash numbers are interchangeable with and replace former dash numbers which contained an additional zero.

The margins of this specification are marked with vertical lines to indicate where modifications 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

MIL-PRF-8805/2	MIL-PRF-22885
MIL-PRF-22885/9	MIL-PRF-22885/10
MIL-PRF-22885/15	MIL-PRF-22885/16
MIL-STD-202	

Custodians:

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

Preparing activity:

DLA - CC

(Project 5930-2006-064)

Review activities:

Army - AR, AT, AV, CR4, MI
Navy - AS, MC, SH
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 <http://assist.daps.dla.mil/> .