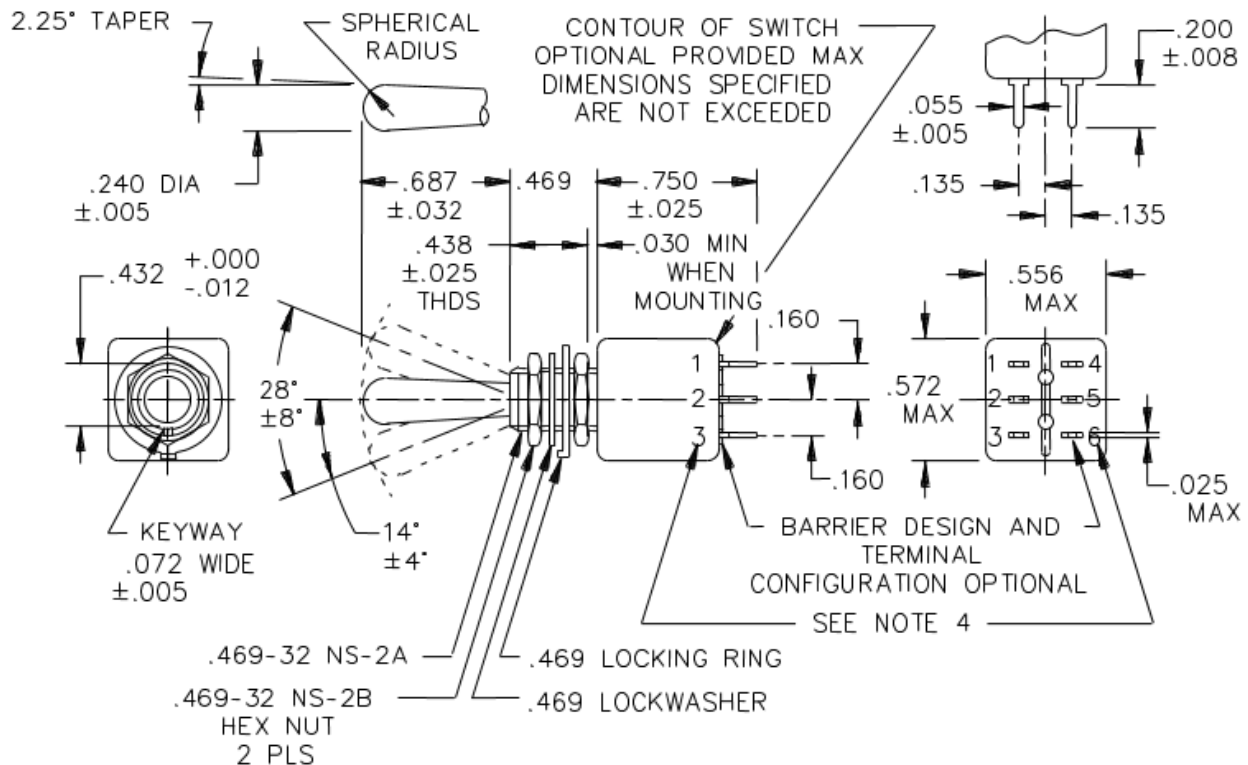


DETAIL SPECIFICATION SHEET

SWITCH, TOGGLE, POSITIVE BREAK, MINIATURE, TOGGLE SEALED,
PRINTED CIRCUIT BOARD TERMINALS, DOUBLE POLE, .469 MOUNTING BUSHING

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

The requirements for acquiring the products described herein shall consist of this specification sheet and [MIL-DTL-8834](#).



NOTES:

1. Dimensions are in inches.
2. Unless otherwise specified, tolerances are ± 0.010 on decimals and $\pm 5^\circ$ on angles.
3. Terminals need not be marked. Terminal identification is shown for reference purposes only.

FIGURE 1. Dimensions and configuration.



MS21357K

REQUIREMENTS:

For hardware detail specifications, see appendix of [MIL-DTL-8834](#).

In the event of a conflict between the text of this specification and the references cited herein, the text of this specification shall take precedence.

Toggle seal test: Method I for 700 and 800 series. Method II for 200 and 300 series.

The switch shall be electrically and mechanically operative at the conclusion of the shock test with 2,000 foot pounds, except there can be transfer of the contact mechanism at all levels when tested in accordance with [MIL-STD-202-207](#).

Terminals: Gold plated.

Weight: .0429 pound maximum (19.4 grams).

Strength of terminals: 5 pounds normal to the mounting plane and 1 pound in other planes.

Altitude: 50,000 feet.

115 V ac 60 hertz electrical endurance tests are to be performed at room temperature and pressure.

MS21357K

TABLE I. Detail requirements.

MS dash no <u>5/ 7/</u>		Circuit made between terminals as indicated with the toggle lever in these positions: <u>1/</u>			Current capacity in amperes						Low current level switching 5 mV
					Resistive load			Inductive load			
		Opposite keyway side <u>4/</u>	Center position	Keyway tab side <u>4/</u>	28 volts dc	115 volts		28 volts dc	115 volts		
					60 Hertz ac	400 Hertz ac		60 Hertz ac	400 Hertz ac		
-711	-211	On 2-3, 5-6	off	on 1-2, 4-5	5	2	3	1 <u>2/</u>	1	2	25 μ A <u>3/</u>
-721	-221		none	off							
-731	-231			on 1-2, 4-5							
-741	-241		off	none							
-771	-271	mom-on 2-3, 5-6									
-781	-281	none									
-811	-311	on 2-3, 5-6									
-821 <u>6/</u>	-321 <u>6/</u>	none	on	on 1-2, 4-5							
-831 <u>6/</u>	-331 <u>6/</u>	on 2-3, 5-6									
-841 <u>6/</u>	-341 <u>6/</u>	mom-on 2-3, 5-6									
-851 <u>6/</u>	-351 <u>6/</u>	on 2-3, 5-6		1-2 4-5							

1/ Direction of movement of internal mechanism is opposite to the direction of the toggle movement.2/ With time constant of .020 $\pm$.002 second.3/ Contact resistance not to exceed 50 Ω during life, low current level switching.4/ Non-functional terminals shall not be supplied.5/ Dielectric withstanding voltage 1200 V rms at sea level (center on circuits).6/ Delayed action of the switch toggle lever may cause circuit to close or open before snap action mechanism trips.7/ 700 and 800 series toggle seal: 15 foot head (water).

200 and 300 series toggle seal: .500 inch head (water).

Referenced documents:

[MIL-DTL-8834](#)

[MIL-STD-202-207](#)

The margins of this specification are marked with vertical lines to indicate where changes from the previous issue 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 and relationship to the previous issue.

Custodians:

Navy - AS

Air Force - 85

DLA - CC

Preparing activity:

DLA – CC

(Project 5930-2022-079)

Review activities:

Navy - EC

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/>.