

INCH-POUND

MS27719H

3 March 2011

SUPERSEDING

MS27719G

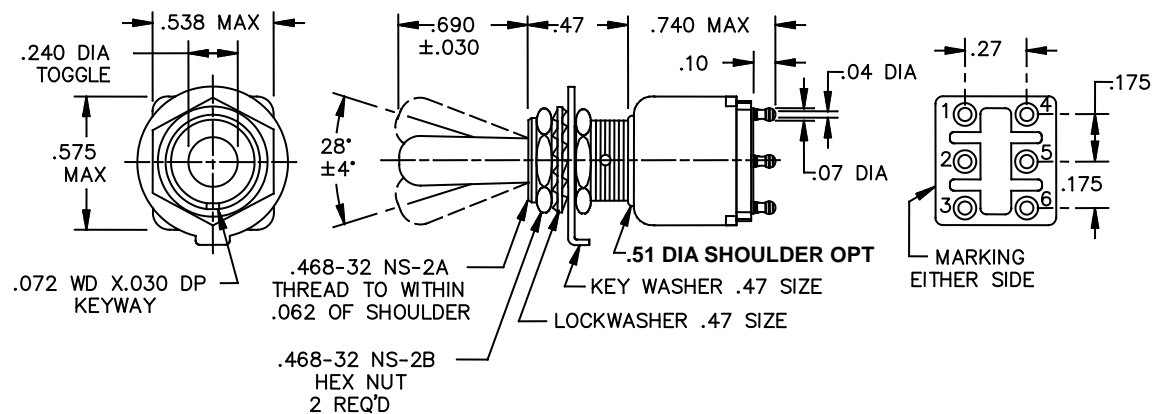
16 November 2005

## DETAIL SPECIFICATION SHEET

## SWITCH, TOGGLE, MINIATURE DOUBLE POLE, TOGGLE SEAL

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

The complete requirements for acquiring the switch described herein shall consist of this specification and the latest issue of MIL-DTL-83731.



Inches	mm	Inches	mm	Inches	mm	Inches	mm
.030	0.76	.072	1.83	.27	6.9	.535	13.59
.04	1.02	.10	2.5	.468	11.89	.575	14.61
.062	1.57	.175	4.45	.47	11.9	.690	16.26
.07	1.78	.240	6.10	.51	13.0	.740	18.80

## NOTES:

1. Metric equivalents are given for information only.
2. Dimensions are in inches.
3. Unless otherwise specified, tolerances are  $\pm .020$  (0.51 mm) on two place decimals and  $\pm .005$  (0.13 mm) on three place decimals.
4. For hardware detail specifications see appendix of MIL-DTL-83731.
5. Configuration of switch case is optional provided maximum dimensions specified are not exceeded.

FIGURE 1. Dimensions and configurations

## MS27719H

### REQUIREMENTS:

Design and construction: See figure 1.

Terminals shall accommodate no. 18 awg wire.

Switching characteristics: see table I. Direction of the movement of the switch mechanism is opposite to that of the toggle lever.

Maximum weight is .5 ounce.

Dielectric withstanding voltage: Test voltage for dielectric withstanding voltage at reduced barometric pressure, shall be 400 V rms minimum.

Toggle seal test: Applicable

Electrical endurance: 30,000 cycles.

Electrical rating:

28 V dc and 115 V ac 400Hz:

Resistive loads: 5 amperes.

Inductive loads: 2 amperes.

Lamp Loads: 1 ampere.

Intermediate current; 30,000 cycles

Mechanical endurance: 50,000 cycles at -65°C then 50,000 cycles at 85°C

Part or Identifying Number (PIN):

Example: MS27719- 21-1

\_\_\_\_\_ Dash number (see table I)

PIN MS27719-21-1 identifies a switch with a circuit configuration of ON in the down position (keying side), OFF in center position, and, ON in the UP position (opposite the keying side)

## MS27719H

Table I: Switching Characteristics

MS Part number <u>1/</u>	Circuit Made with toggle lever In		
	Keying Side 1-2                      4-5	Center Position	Opposite Keying Side 2-3                      5-6
MS27719-21-1	On	Off	On
MS27719-22-1	Off	None	On
MS27719-23-1	On	None	On
MS27719-26-1	Mom-On	None	On
MS27719-27-1	Mom-On	Off	Mom-On
MS27719-31-1	Mom-On	Off	On

1/ The canceled part number (without a -1 suffix) are no longer procurable; the substitute part number shown have a lower dielectric withstanding voltage at reduced barometric pressure.

Referenced documents  
MIL-DTL-83731

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

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

Preparing activity:  
DLA – CC

Project (5930-2011-021)

Review activities:  
Army – AV  
Air Force – 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 <https://assist.daps.dla.mil/>.