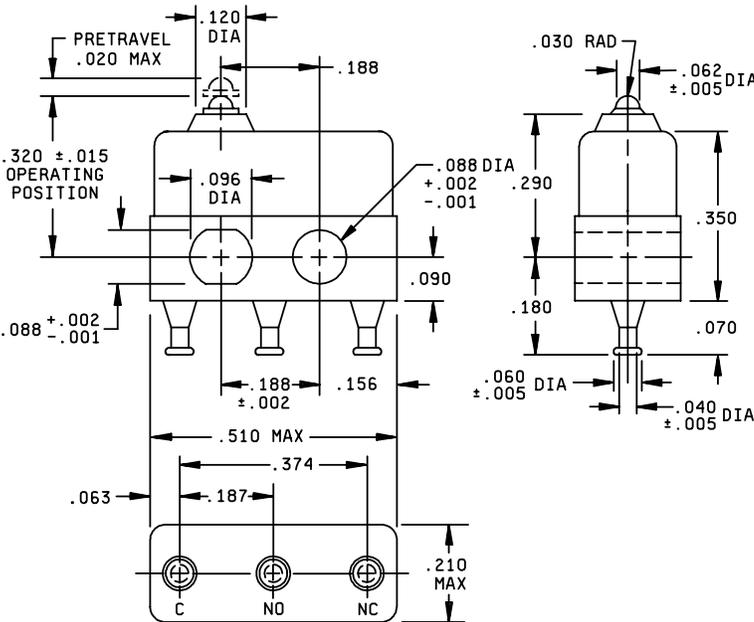


PERFORMANCE SPECIFICATION SHEET

SWITCHES, SENSITIVE, SPDT, LOW LEVEL TO 2 AMPERES, 400°F, UNSEALED

This specification forms a part of MIL-PRF-8805, dated 23 January 1998, and 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 and MIL-PRF-8805.



Inches	mm	Inches	mm	Inches	mm	Inches	mm	Inches	mm
.001	.03	.030	.76	.070	1.78	.156	3.96	.290	7.37
.002	.05	.040	1.02	.088	2.24	.180	4.57	.320	8.13
.005	.13	.060	1.52	.090	2.29	.187	4.75	.350	8.89
.015	.38	.062	1.57	.096	2.44	.188	4.78	.374	9.50
.020	.51	.063	1.60	.120	3.05	.210	5.33	.510	12.95

NOTES:

1. Dimensions are in inches.
2. Unless otherwise specified, tolerances are $\pm .010$ (0.25 mm).
3. Mounting holes will accept pins or screws of .087 maximum diameter on $.188 \pm .002$ centers.
4. Metric equivalents (to the nearest .01 mm) are given for general information.

FIGURE 1. Configuration and dimensions.

REQUIREMENTS:

Dimensions and configuration: See figure 1.

Enclosure design: 1 (Unsealed)

Temperature characteristic: 1 (-55°C to +205°C).

Shock type: 100 g, per method 213, MIL-STD-202, test condition C.

Vibration grade: 2 (10 - 2,000 cps)

Weight: .003 pounds maximum.

Operating characteristics: 20 percent variation from specified values are acceptable after endurance test.

Actuating force: 5 ounces maximum.

Release force: 1 ounce minimum.

Pretravel: .020 inch maximum

Overtravel: .004 inch minimum.

Movement differential: .002 inch maximum.

Terminals: Terminal finish may be .000050 inch maximum gold plate.

Dielectric withstanding voltage:

1,000 V rms at sea level.

400 V rms at 50,000 feet.

In the qualification inspection table after electrical endurance, the dielectric withstanding voltage points of application between all unconnected terminals of the same pole is not applicable.

Mechanical endurance: 100,000 cycles.

Electrical endurance: 100,000 cycles

Minimum current: Not applicable.

Low level circuit (-02 only): 100,000 cycles.

Electrical ratings: See table I.

Part or Identifying Number (PIN): See table I.

TABLE I. Electrical ratings and PIN's.

Load	PIN M8805/106-	
	01	02
Sea level, 28 V dc		
	amperes	amperes
Resistive	2.0	1.0
Inductive	1.0	0.5
Lamp	0.25	----

Qualification:

Group submission: See table II.

Group A inspection: Do not exceed low level electrical ratings during any testing of -02.

TABLE II. Group submission qualification inspection.

PIN's	Number of sample units	Examination or test
M8805/106-01	18	Qualification Inspection Table of MIL-PRF-8805
M8805/106-02	6	Group I, VII, and X of MIL-PRF-8805 Qualification Inspection Table

Application note: Environmental contamination in the application can adversely affect the ability of the -02 switch to provide consistent performance on low level loads. Protection from environmental contamination can be accomplished by providing an appropriately sealed enclosure.

Custodians:
 Navy - EC
 Air Force - 11
 DLA - CC

Preparing activity:
 DLA - CC
 (Project 5930-1126-03)