

DETAIL SPECIFICATION SHEET

SWITCHES, RADIO-FREQUENCY TRANSMISSION LINE (COAXIAL)  
(ELECTRICALLY OPERATED) MID-SIZE CLASS 5, 1P2T

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

Requirements for acquiring the switches described herein  
shall consist of this specification sheet and MIL-DTL-3928.

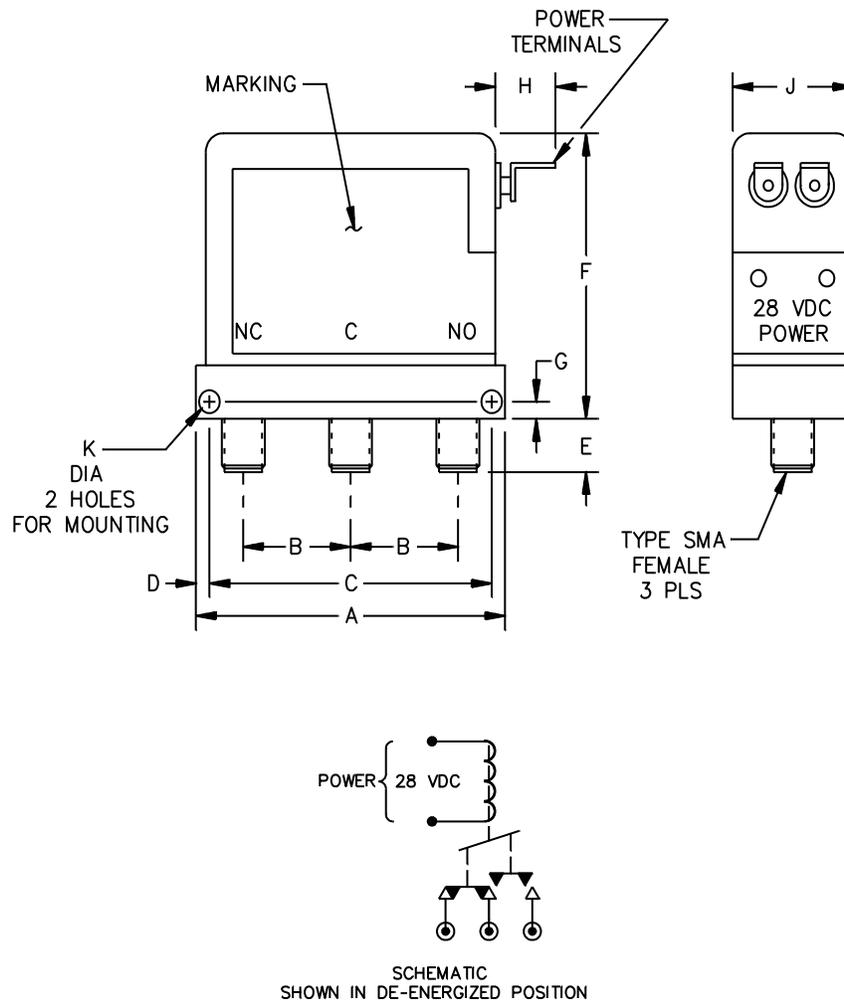


FIGURE 1. Switch configuration and schematic, part or identifying numbers M3928/32-01.

MIL-DTL-3928/32

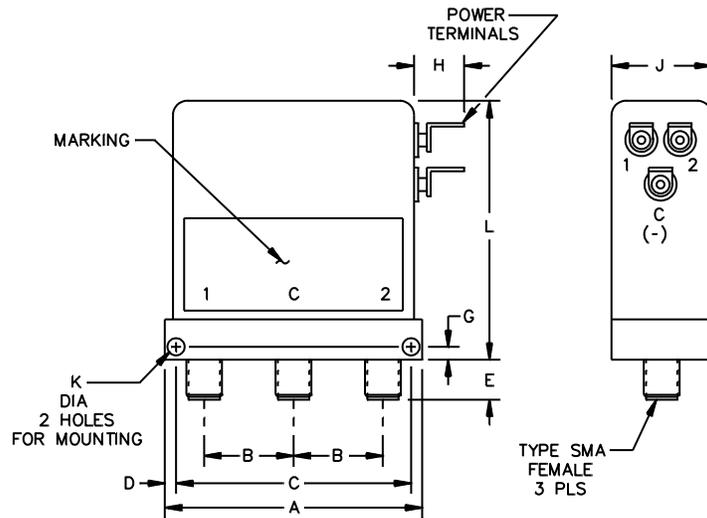
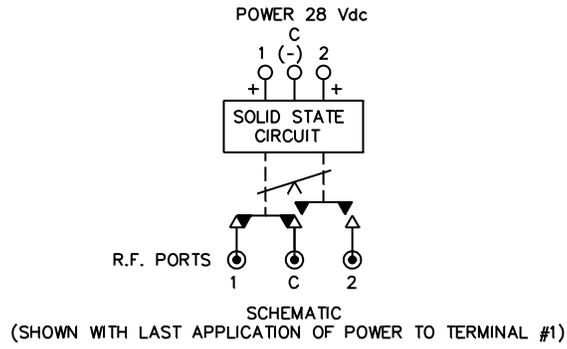


FIGURE 1. Switch configuration and schematic, part or identifying numbers M3928/32-02.

## MIL-DTL-3928/32

Dimensions									
Letter	Inches		Millimeters		Letter	Inches		Millimeters	
	Min	Max	Min	Max		Min	Max	Min	Max
A 1.80 ± .02	1.78	1.82	45.2	46.2	F 1.50 ± .02	1.48	1.52	37.6	38.6
B .625 ± .005	.620	.630	15.7	16.0	G .09 ± .02	.07	.11	1.7	2.8
C 1.644 ± .005	1.639	1.649	41.6	41.8	H .35 max	---	.35	--	8.9
D .08 ± .02	.06	.10	1.5	2.5	J .70 ± .02	.68	.72	17.3	18.3
E .30 ± .02	.28	.32	7.1	8.1	K .120 ± .005	.115	.125	2.9	3.2
					L 1.80 ± .02	1.78	1.82	45.2	46.2

## NOTES:

1. Dimensions are in inches.
2. Metric equivalents may be determined using 1.00 inch = 25.4 mm.

TABLE I. Electrical and performance characteristics.

Part or identifying number M3928/32-	Figure No.	Housing	Fre- quency range GHz	Fre- quency rating GHz	VSWR Max	Insertion loss (dB) Max	Isolation (dB) Min	Switch time (ms) Max	Position indication circuit and rating	Life cycles x 1000 Min	Fail-safe or latching	Operating current (A) <u>1/</u> Max	Holding current (A) <u>1/</u> max	Nominal operating voltage	Pickup voltage (less than)	Dropout voltage (less than)	Power and indicator connector	Weight (oz) Max
M3928/32-01 N,S	1	I	DC -18	DC -4.0	1.2:1	0.2	80	20	None	1000	F	.16	.16	28 Vdc	20 Vdc	---	Solder lugs	5
				4.0- 12.4	1.3:1	0.3	70											
				12.4- 18.0	1.5:1	0.4	60											
M3928/32-02 N,S	2	I	DC - 18	DC -4.0	1.2:1	0.2	80	20	None	1000	L <u>2/</u>	.06	---	28 Vdc	20 Vdc	-----	Solder lugs	5
				4.0- 12.4	1.3:1	0.3	70											
				12.4- 18.0	1.5:1	0.4	60											

1/ At nominal voltage and 20°C.

2/ Current applied 10 ms minimum. Cutthroat circuitry recovery time 100 ms nominal.

MIL-DTL-3928/32

REQUIREMENTS:

Dimensions and configurations: See figures 1 and 2.  
Termination: Open.

Nominal impedance: 50 ohms.

RF connections: Connector shall be SMA Female configuration and shall meet the requirement of MIL-PRF-39012.

Electrical and performance characteristics: See table I.

RF contacts: Break before make.

Operating temperature: - 55°C to +85°C.

Part or Identifying Number: M3928/32- (and dash number from table I).

Referenced documents: In addition to MIL-DTL-3928, this document references the following MIL-PRF-39012

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

Preparing activity:  
DLA - CC  
  
(Project 5985-2014-036)

Review activities:  
Army - MI  
Navy - AS, MC, OS  
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 <https://assist.dla.mil/>.