



TECHNICAL DATA

VS-2
VS-4
VS-6

VACUUM SWITCH

EIMAC VS-2, VS-4 and VS-6 are single pole, double throw, electromagnetically actuated vacuum switches designed for high voltage applications where a compact, fast-acting vacuum switch is required.

The VS-2 and VS-4 are identical electrically and are intended for switching radio-frequency circuits at moderate values of current. These two switches differ only in physical characteristics, the VS-4 being shorter.

The VS-6 is intended for pulse switching applications where high peak currents are encountered. These switches are designed to be used with EIMAC 12 volts and 24 volts direct-current coils.



GENERAL CHARACTERISTICS¹

ELECTRICAL

	VS-2	VS-4	VS-6
Peak rf hold-off voltage	20,000	20,000	22,000 volts
Rf Contact Current (1-15 MHz)	7.5	7.5	amperes
(30 MHz)	5.0	5.0	amperes
Pulse Current (see note)			150 amperes

(Note) Pulse duration less than 2.5 microseconds, pulse repetition rate less than 400 pps.
Pulse train = 0.5 seconds.

Maximum Contact Resistance:

Normally closed contact	0.03	0.03	0.03 ohms
Normally open contact	0.05	0.05	0.05 ohms
Maximum Contact closing time	20	20	20 millisec.

MECHANICAL

Dimensions	See drawings		
Weight (Approximate)	2 oz; 56.7 gm		

Coil Data:	12 volt coil	24 volt coil
Part Number	051270	051271
Resistance (nominal)	30	115 ohms

1. Characteristics and operating values are based upon performance tests. These figures may change without notice as the result of additional data or product refinement. EIMAC Division of Varian should be consulted before using this information for final equipment design.

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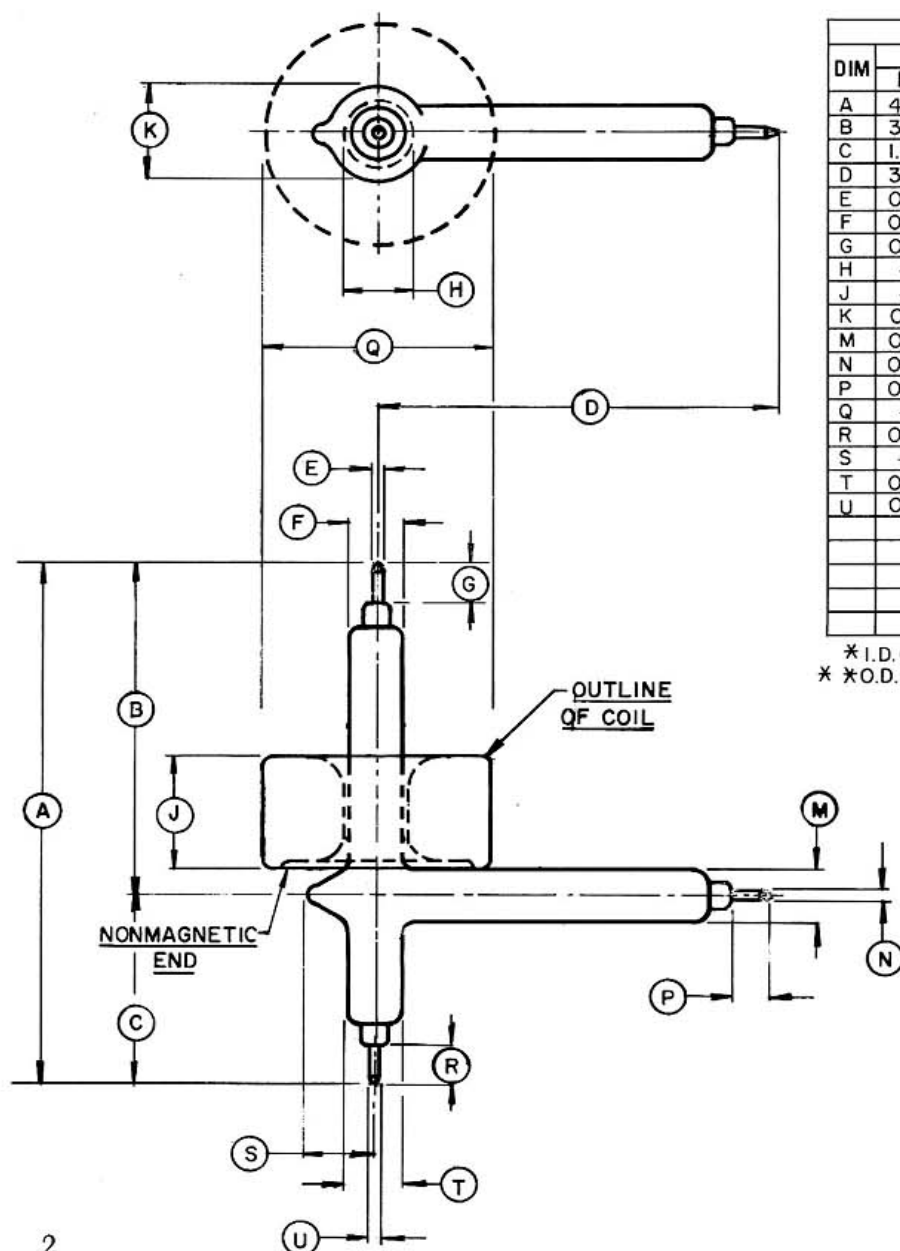
Printed in U.S.A.



In order to prevent damage from shock and vibration, the switch should be fastened to the equipment with rubber covered metal strips over the glass tubing.

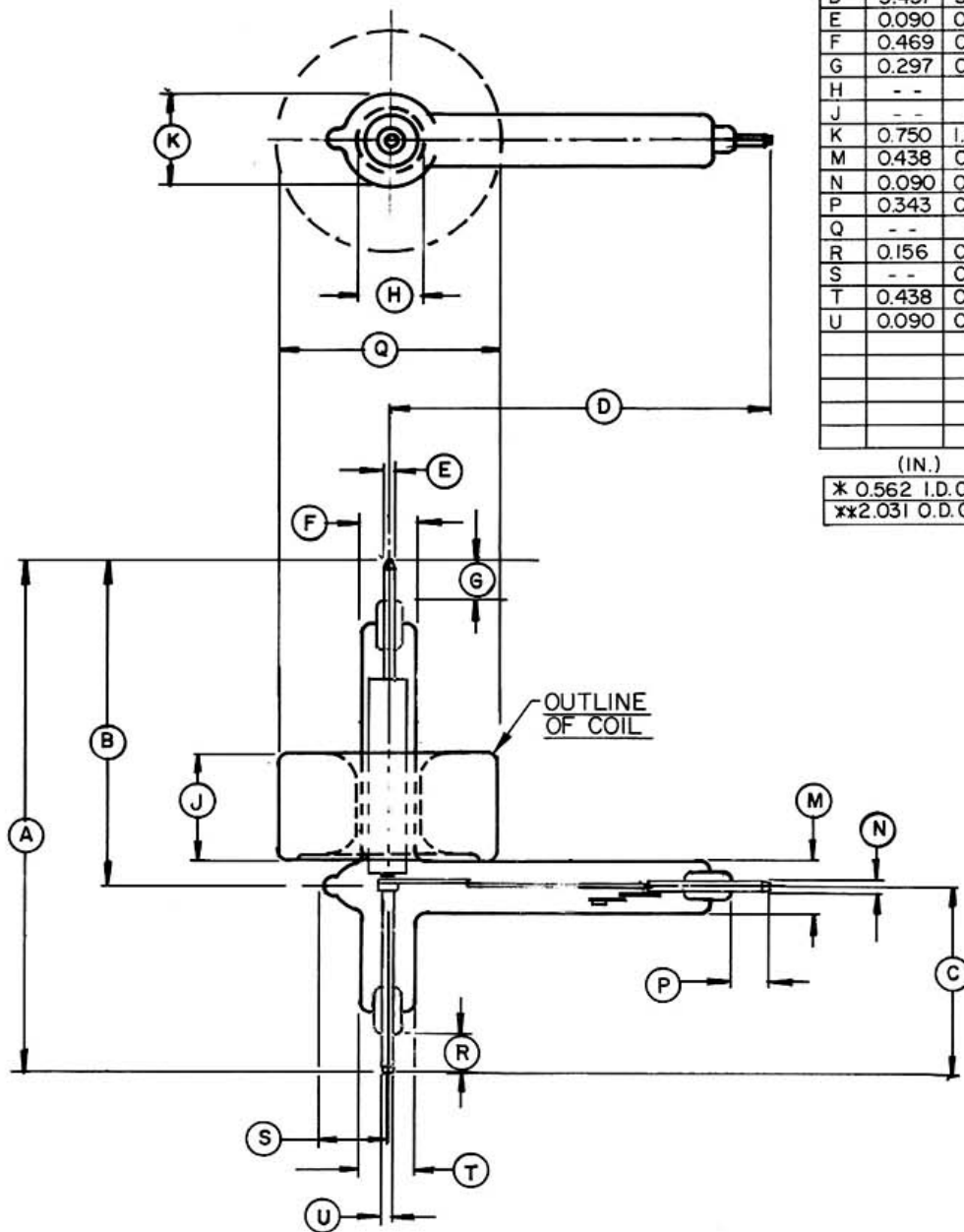
DC RATINGS - While not designed for dc applications, the VS series may be used at reduced ratings in dc service. The following ratings have been established:

	VS-2	VS-4	VS-6	
Voltage-	14,000	14,000	14,000	Vdc
Current -	4	4	6	Adc

[illegible]

* I.D. COIL
* * O.D. COIL

VS-2



DIMENSIONAL DATA						
DIM	INCHES			MILLIMETERS		
	MIN.	MAX.	REF.	MIN.	MAX.	REF.
A	4.453	4.577	- -	113.11	116.25	- -
B	2.922	3.046	- -	74.22	77.37	- -
C	1.469	1.593	- -	37.31	40.46	- -
D	3.437	3.562	- -	87.30	90.47	- -
E	0.090	0.103	- -	2.29	2.62	- -
F	0.469	0.531	- -	11.91	13.49	- -
G	0.297	0.359	- -	7.54	9.12	- -
H	- -	- -	*	- -	- -	*
J	- -	- -	1.031	- -	- -	26.19
K	0.750	1.000	- -	19.05	25.40	- -
M	0.438	0.562	- -	11.12	14.27	- -
N	0.090	0.103	- -	2.29	2.62	- -
P	0.343	0.406	- -	8.71	10.31	- -
Q	- -	- -	**	- -	- -	**
R	0.156	0.218	- -	3.96	5.54	- -
S	- -	0.750	- -	- -	19.05	- -
T	0.438	0.562	- -	11.12	14.27	- -
U	0.090	0.103	- -	2.29	2.62	- -

(IN.)	(MM)
* 0.562 I.D. COIL	
**2.031 O.D. COIL	51.59 O.D. COIL

VS-4

