
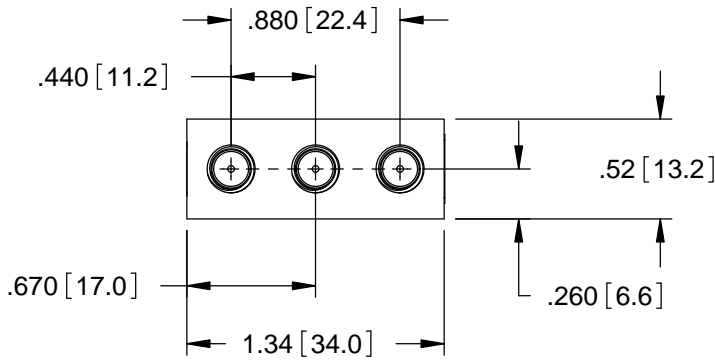
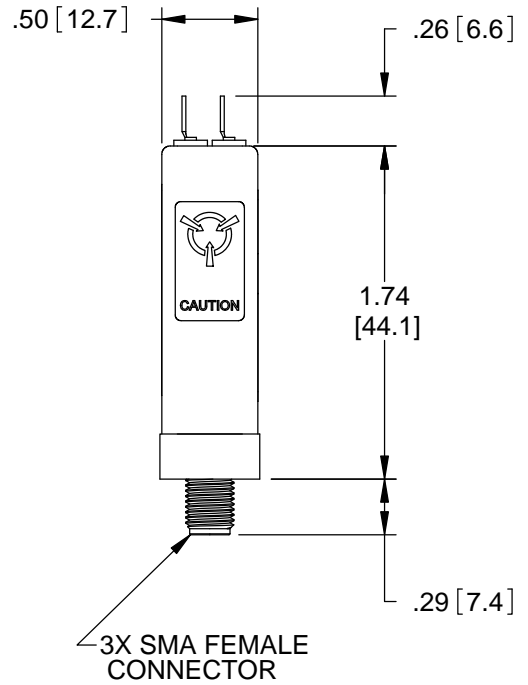
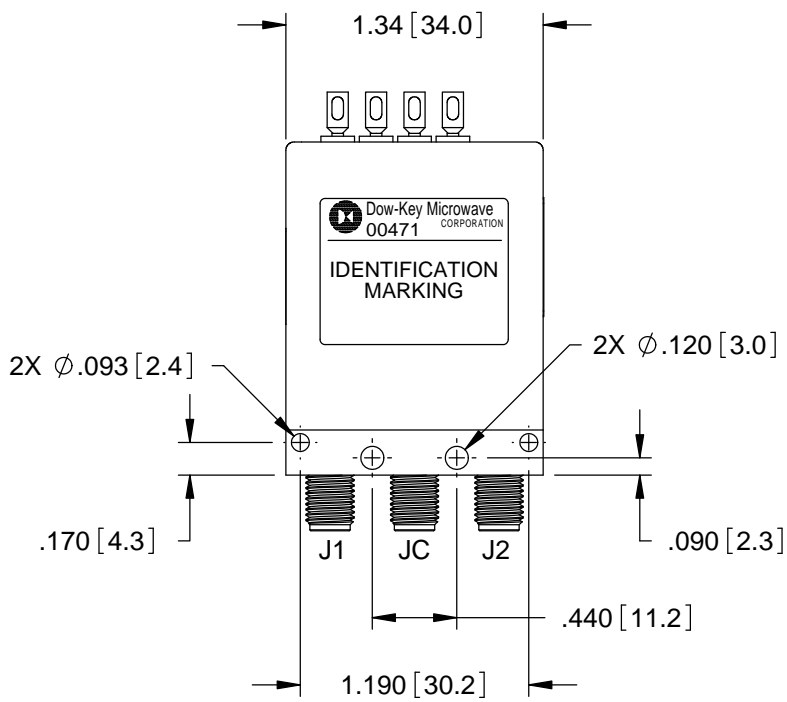
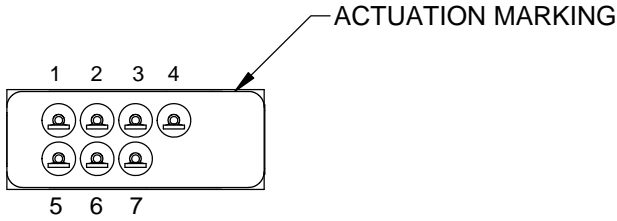


REVISIONS			
REV	DESCRIPTION	DATE	APPROVED
A	PRODUCTION RELEASE	8/13/15	K.R.
B	REVISED PER ECO 11340	11/11/15	S.L.
C	REVISED PER ECO 11505	7/14/16	K.R.

Nominal Coil Voltage	Part Number
12 Vdc	R401K-420852
24 Vdc	R401K-480852

REVISIONS	C	C	C	C	C		 DowKey[®] Microwave CORPORATION <small>A DOVER TECHNOLOGIES COMPANY</small>	4822 McGrath Street Ventura, CA. 93003-5641 PH: (805) 650-0260 FAX: (805) 650-1734
SHEET NO.	1	2	3	4	5			
APPROVALS		DATE					SWITCH, SPDT, LATCHING SELF CUT-OFF SMA-FEMALE CONNECTORS, 26.5 GHz OPTICAL INDICATORS, 10 MIL CYCLES	
DRAWN SARA LEE		08/10/15						
ENGINEERING J. WESSELY		7/14/2016						
QUALITY G. WAKEFIELD		8/12/2015						
MANUFACTURING R. GARCIA		8/13/2015						
CODE IDENT. NO.			DWG. NO.					
00471			R401K-4X0852					
SCALE		NONE		FINAL ASSY: 11024-269-V		SHEET 1 OF 5		

OUTLINE DRAWING:



[] MILLIMETERS

UNLESS OTHERWISE SPECIFIED TOLERANCES ARE: .XXX ±.010 ANGLES: ±3° .XX ±.030	CODE IDENT. NO. 00471	DWG. NO. R401K-4X0852	REV. C
	SCALE NONE	FINAL ASSY: 11024-269-V	SHEET 2 OF 5

SPECIFICATION:

1.0 RF CHARACTERISTICS:

1.1 FREQUENCY (GHz)	DC - 4	4 - 12.4	12.4 - 20	20 - 26.5
1.2 VSWR (RATIO MAX)	1.15:1	1.25:1	1.35:1	1.50:1
1.3 INSERTION LOSS (dB MAX)	0.42	0.56	0.69	0.80
1.4 ISOLATION (dB MIN)	85	76	67	60
1.5 HOT SWITCHING (WATTS CW)	2	2	2	2
1.6 IMPEDANCE (NOMINAL)	50 OHMS			
1.7 REPEATABILITY (MAX)	0.03 dB @ 25°C (DC - 26 GHz)			

2.0 ACTUATION DATA:

2.1	NOMINAL VOLTAGE	OPERATING VOLTAGE	CURRENT (TYP) @ NOMINAL VOLTAGE & 25°C
	12 Vdc	11-14 Vdc	60 mA
	24 Vdc	20-32 Vdc	30 mA
2.2	SWITCHING TIME		15 mS MAX
2.3	OPERATING MODE		LATCHING SELF CUT-OFF

3.0 MECHANICAL:

3.1 CONTACT ARRANGEMENT	SPDT
3.2 RF CONTACTS	BREAK BEFORE MAKE
3.3 WEIGHT	1.45 oz (41 g) NOMINAL
3.4 DESIGN LIFE *	10,000,000 CYCLES MINIMUM

4.0 ENVIRONMENTAL:

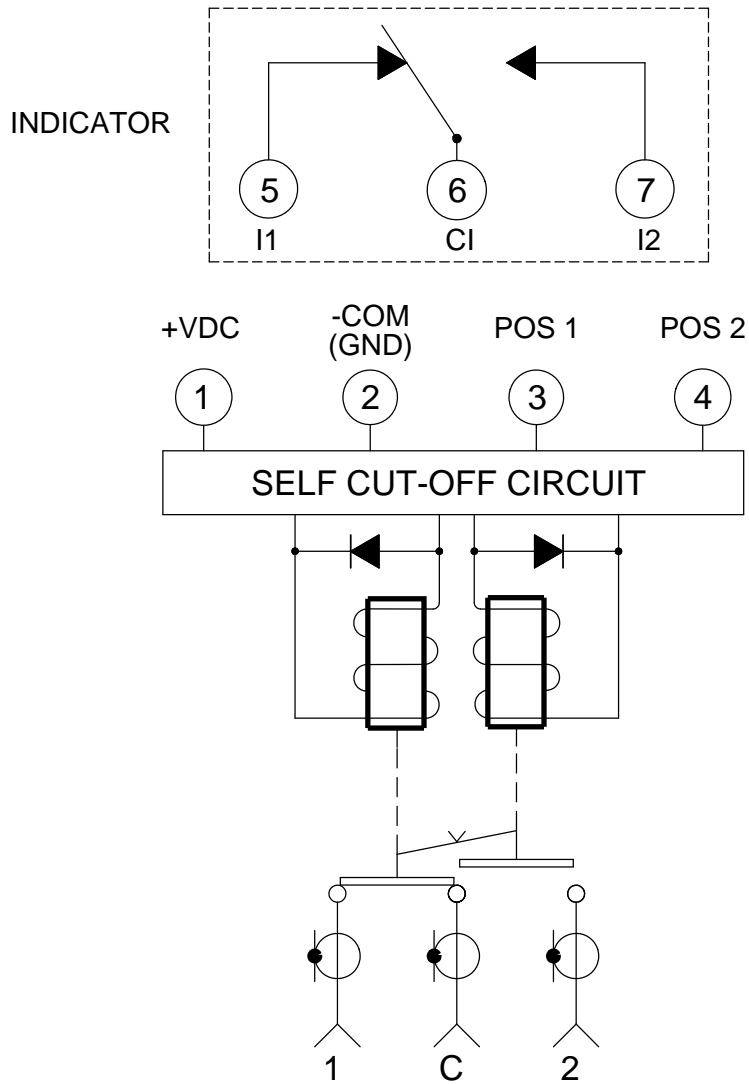
4.1 OPERATING TEMPERATURE	-25°C TO +75°C
4.2 STORAGE TEMPERATURE	-55°C TO +85°C
4.3 VIBRATION	
4.3.1 SINUSOIDAL OPERATING	7 g, 5-2000 Hz at 0.25 in p-p
4.3.2 SINUSOIDAL SURVIVAL	20 g, 20-2000 Hz at 0.06 in. p-p
4.3.3 RANDOM (OPERATING)	2.41 g (rms), 10 min/AXIS
4.4 SHOCK	
4.4.1 SURVIVAL	HALF SINE: 500 g at 0.5 mS
4.4.2 OPERATING	50 g at 6mS
4.5 HUMIDITY (OPERATING)	15 TO 95% RELATIVE HUMIDITY (NON-CONDENSING)
4.6 ALTITUDE	
4.6.1 OPERATING	15,000 FEET
4.6.2 SURVIVAL	50,000 FEET

* DESIGN LIFE IS 10 MILLION CYCLES MINIMUM, WHEN DRIVEN AT VOLTAGES $20 \leq V_{supply} \leq 28$ VDC OR $11 \leq V_{supply} \leq 14$ VDC. DEPENDING ON SWITCH OPERATING VOLTAGE.

DESIGN LIFE IS 2 MILLION CYCLES MINIMUM WHEN DRIVEN AT VOLTAGES $28 < V_{supply} \leq 32$ VDC.

CODE IDENT. NO. 00471	DWG. NO. R401K-4X0852	REV. C
SCALE NONE	FINAL ASSY: 11024-269-V	SHEET 3 OF 5

SCHEMATIC:



SWITCH SHOWN WITH POSITION 1 SELECTED

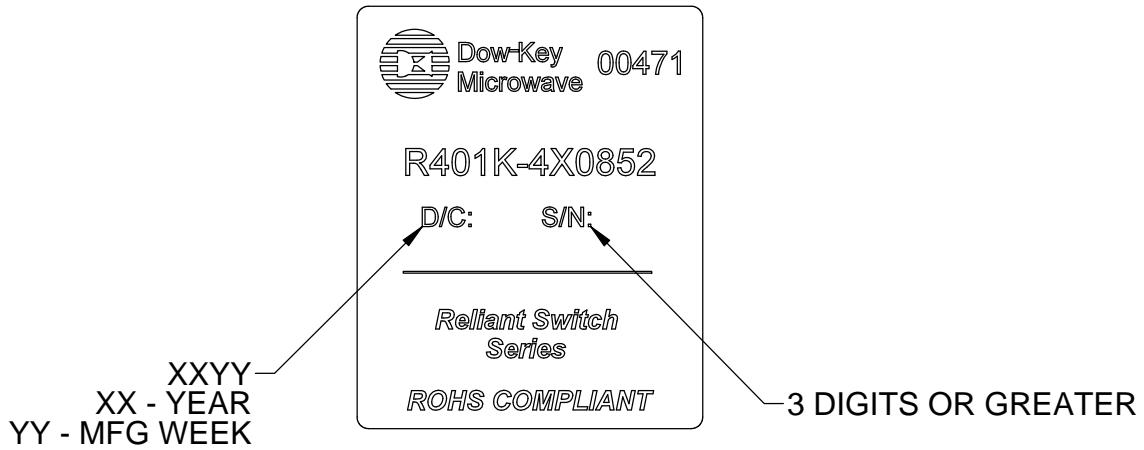
STANDARD DRIVE:

- CONNECT GROUND TO -COM, PIN 2
- CONNECT SUPPLY VOLTAGE (+VDC) TO PIN 1
- SELECT (CLOSE) THE DESIRED RF PATH BY APPLYING GROUND TO THE CORRESPONDING POSITION

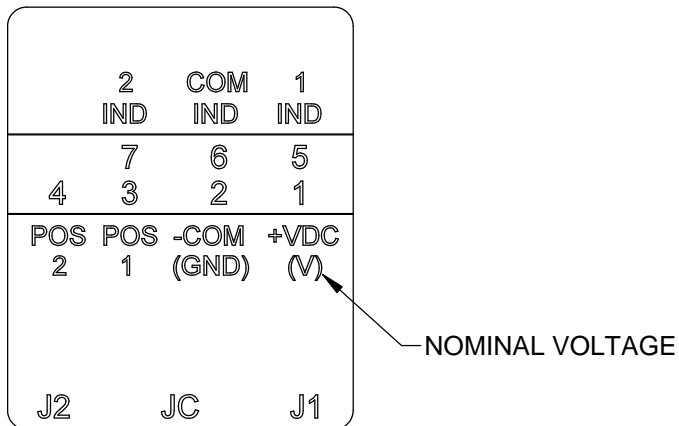
NOTE: GROUND CANNOT BE APPLIED TO BOTH POSITIONS SIMULTANEOUSLY

CODE IDENT. NO. 00471		DWG. NO. R401K-4X0852		REV. C
SCALE	NONE	FINAL ASSY: 11024-269-V		SHEET 4 OF 5

IDENTIFICATION MARKING:



ACTUATION MARKING:



NOTE: ALL WORDS, LETTERS, NUMBERS AND SYMBOLS SHALL BE LOCATED APPROXIMATELY AS SHOWN

CODE IDENT. NO. 00471	DWG. NO. R401K-4X0852	REV. C
SCALE NONE	FINAL ASSY: 11024-269-V	SHEET 5 OF 5