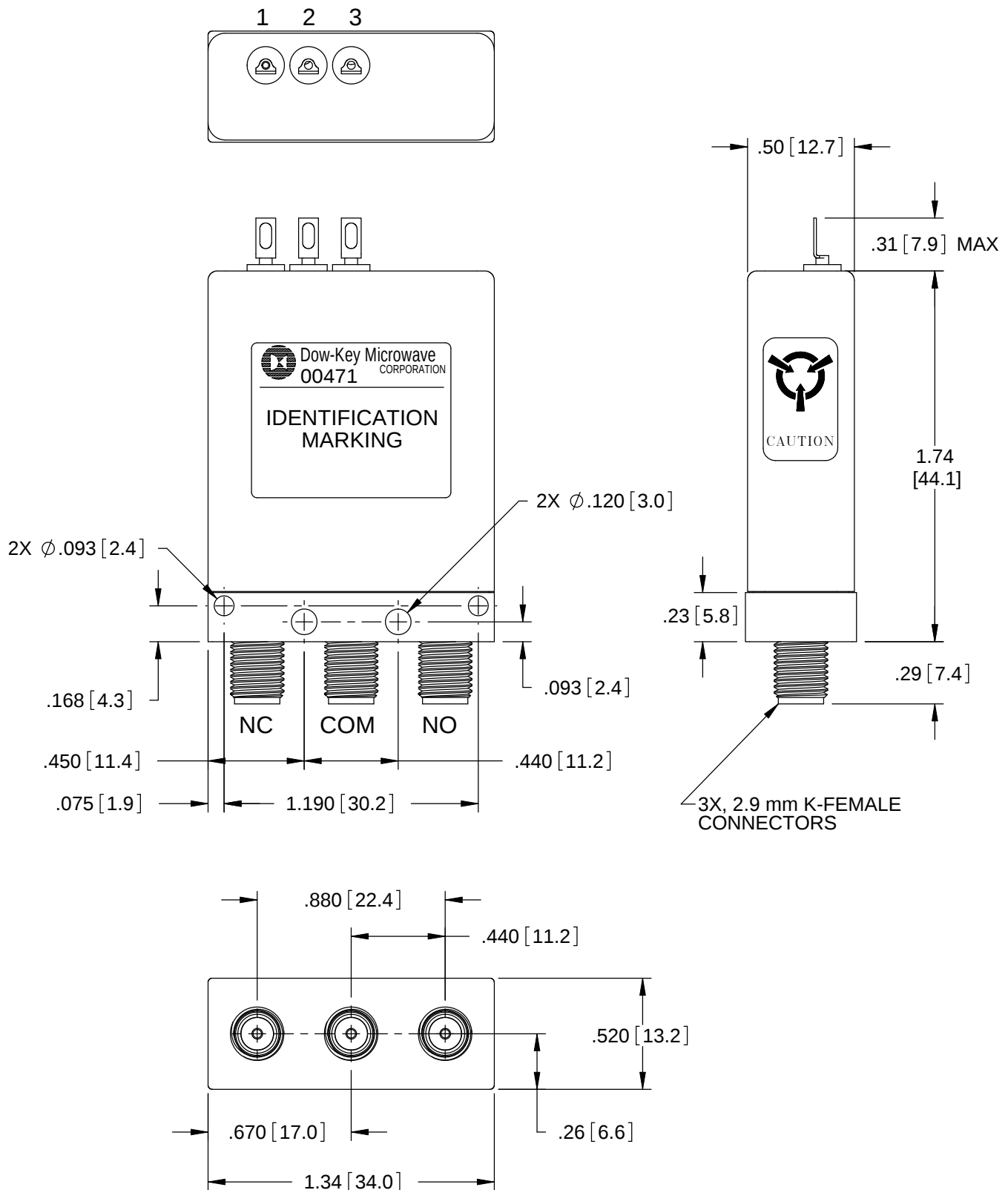


| REVISIONS |                        |          |          |
|-----------|------------------------|----------|----------|
| REV.      | DESCRIPTION            | DATE     | APPROVED |
| A         | PRODUCTION RELEASE     | 3/12/07  | K.R.     |
| B         | REVISED PER ECO #10687 | 10/14/13 | K.R.     |

| Nominal<br>Coil Voltage | Part Number  |
|-------------------------|--------------|
| 12 Vdc                  | 401Y-221102A |
| 15 Vdc                  | 401Y-291102A |
| 24 Vdc                  | 401Y-281102A |
| 28 Vdc                  | 401Y-231102A |

|                           |   |            |   |  |  |  |                                                                                                                                                                                |                                                                                             |                                 |  |              |  |
|---------------------------|---|------------|---|--|--|--|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------|---------------------------------|--|--------------|--|
| REVISIONS                 | B | B          | B |  |  |  |  <b>DowKey®<br/>Microwave</b><br>CORPORATION<br><small>A DOVER TECHNOLOGIES COMPANY</small> | 4822 McGrath Street<br>Ventura, CA. 93003-5641<br>PH: (805) 650-0260<br>FAX: (805) 650-1734 |                                 |  |              |  |
| SHEET NO.                 | 1 | 2          | 3 |  |  |  |                                                                                                                                                                                |                                                                                             |                                 |  |              |  |
| APPROVALS                 |   | DATE       |   |  |  |  |                                                                                                                                                                                |                                                                                             |                                 |  |              |  |
| DRAWN<br>SARA LEE         |   | 03/12/07   |   |  |  |  |                                                                                                                                                                                |                                                                                             |                                 |  |              |  |
| ENGINEERING<br>T. JOHNSON |   | 10/10/2013 |   |  |  |  |                                                                                                                                                                                |                                                                                             |                                 |  |              |  |
| QUALITY<br>S. LYNCH       |   | 03/12/07   |   |  |  |  | CODE IDENT. NO.<br><b>00471</b>                                                                                                                                                |                                                                                             | DWG. NO.<br><b>401Y-2X1102A</b> |  |              |  |
| MANUFACTURING<br>J. LEE   |   | 03/12/07   |   |  |  |  | SCALE NONE                                                                                                                                                                     |                                                                                             | FINAL ASSY: FINAL               |  | SHEET 1 OF 3 |  |

# OUTLINE DRAWING:



[ ] MILLIMETERS

UNLESS OTHERWISE  
SPECIFIED TOLERANCES  
ARE:

.XXX  $\pm .010$  ANGLES:  $\pm 3^\circ$   
.XX  $\pm .030$

CODE IDENT. NO.  
**00471**

DWG. NO.

**401Y-2X1102A**

REV.  
**B**

SCALE NONE

FINAL ASSY: 401Y-2X1102A

SHEET 2 OF 3

## SPECIFICATION:

### 1.0 RF CHARACTERISTICS:

|                             |        |        |         |           |           |
|-----------------------------|--------|--------|---------|-----------|-----------|
| 1.1 FREQUENCY (GHz)         | DC - 6 | 6 - 12 | 12 - 18 | 18 - 26.5 | 26.5 - 40 |
| 1.2 VSWR (RATIO MAX)        | 1.30:1 | 1.40:1 | 1.50:1  | 1.70:1    | 1.95:1    |
| 1.3 INSERTION LOSS (dB MIN) | 0.30   | 0.40   | 0.50    | 0.70      | 0.95      |
| 1.4 ISOLATION (dB MIN)      | 70     | 60     | 60      | 55        | 50        |
| 1.5 RF POWER (WATTS CW MAX) | 80     | 60     | 50      | 25        | 10        |

RF POWER TEST CONDITIONS - SEA LEVEL +25°C, LOAD VSWR 1:1

### 2.0 ACTUATION DATA:

|     |                 |                   |                                           |
|-----|-----------------|-------------------|-------------------------------------------|
| 2.1 | NOMINAL VOLTAGE | OPERATING VOLTAGE | CURRENT (TYP)<br>@ NOMINAL VOLTAGE & 25°C |
|     | 12              | 11-14             | 185mA                                     |
|     | 15              | 13-17             | 160mA                                     |
|     | 24              | 20-28             | 120mA                                     |
|     | 28              | 24-32             | 90mA                                      |

2.2 SWITCHING TIME 15mS MAX

2.3 OPERATING MODE FAILSAFE

### 3.0 MECHANICAL:

3.1 CONTACT ARRANGEMENT SPDT

3.2 RF CONTACTS BREAK BEFORE MAKE

3.3 WEIGHT 1.4 oz (40 g) NOMINAL

3.4 DESIGN LIFE 1,000,000 CYCLES MINIMUM

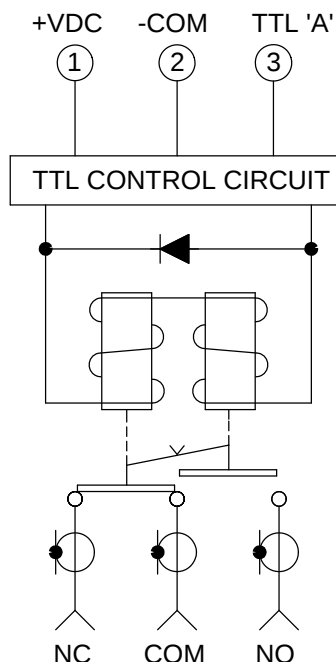
### 4.0 ENVIRONMENTAL:

4.1 OPERATING TEMPERATURE -25°C TO +65°C

4.2 STORAGE TEMPERATURE -55°C TO +85°C

4.3 SEAL: EPOXY SEALED

## SCHEMATIC:



SWITCH SHOWN IN THE DE-ENERGIZED POSITION

| LOGIC TRUTH TABLE |                 |
|-------------------|-----------------|
| RF PATH           | LOGIC INPUT 'A' |
| NC - COM          | 0               |
| NO - COM          | 1               |

LOGIC HI (ON) 1 = 2.4-5.5Vdc  
LOGIC LOW (OFF) 0 = 0-0.8Vdc

|                                 |                                 |                  |
|---------------------------------|---------------------------------|------------------|
| CODE IDENT. NO.<br><b>00471</b> | DWG. NO.<br><b>401Y-2X1102A</b> | REV.<br><b>B</b> |
| SCALE NONE                      | FINAL ASSY: 401Y-231102A        | SHEET 3 OF 3     |