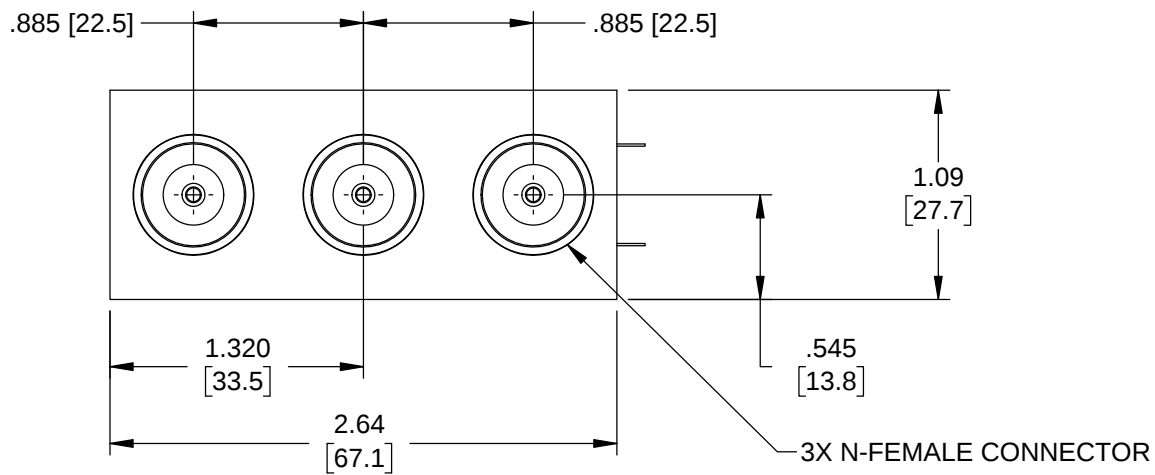
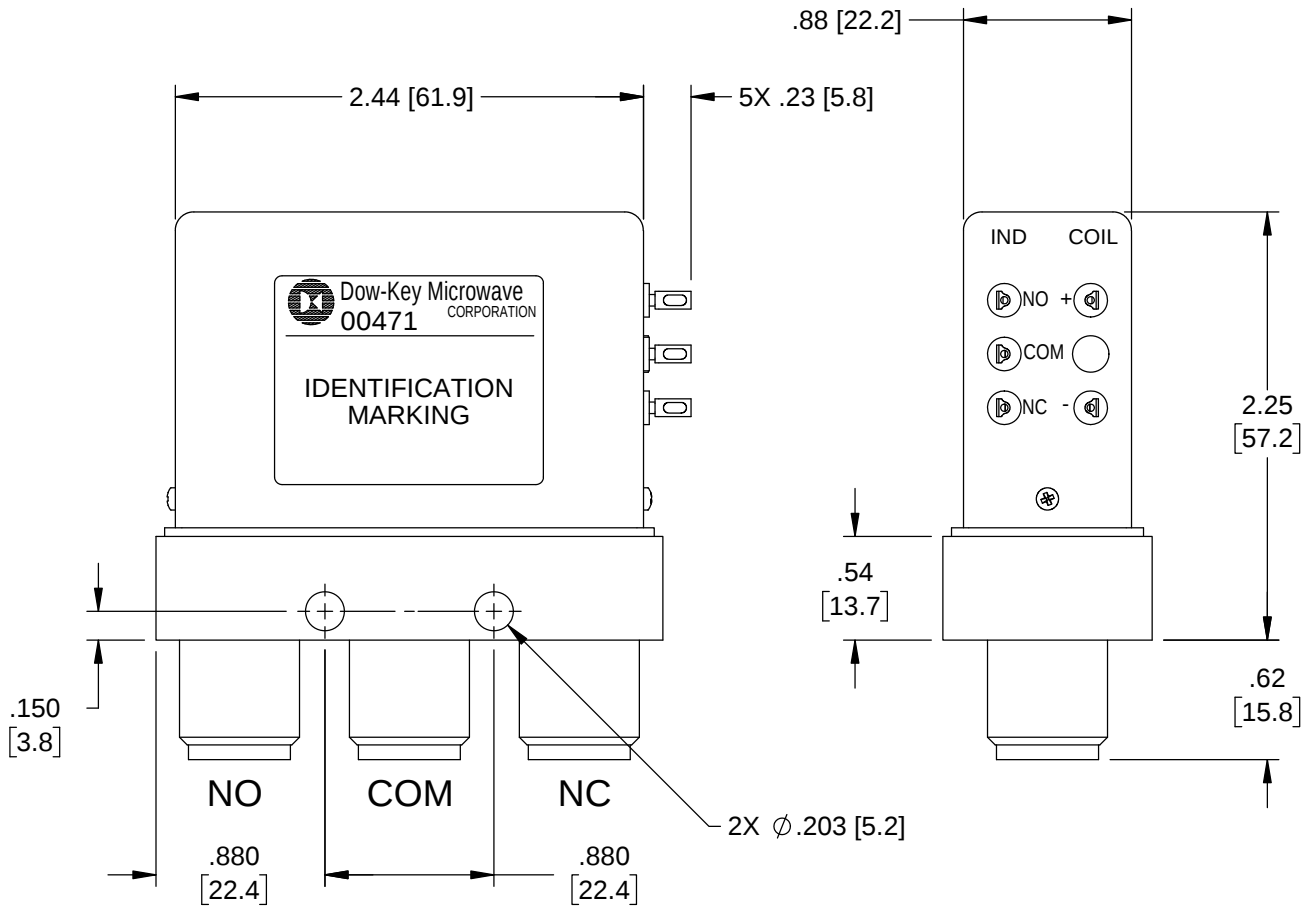


| REVISIONS |                       |          |          |
|-----------|-----------------------|----------|----------|
| REV.      | DESCRIPTION           | DATE     | APPROVED |
| E         | REVISED PER ECO 10408 | 7/25/12  | K.R.     |
| F         | REVISED PER ECO 11790 | 11/14/17 | K.R.     |

| Nominal<br>Coil Voltage | Part Number |
|-------------------------|-------------|
| 12 Vdc                  | 402A-220132 |
| 15 Vdc                  | 402A-290132 |
| 24 Vdc                  | 402A-280132 |
| 28 Vdc                  | 402A-230132 |
| 48 Vdc                  | 402A-240132 |

|                |  |            |  |                                                                                                                                                                                            |  |                                                                                             |  |
|----------------|--|------------|--|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|---------------------------------------------------------------------------------------------|--|
| APPROVALS      |  | DATE       |  |  <b>DowKey<sup>®</sup><br/>Microwave<br/>CORPORATION</b><br><small>A JOVEE TECHNOLOGIES COMPANY</small> |  | 4822 McGrath Street<br>Ventura, CA. 93003-5641<br>PH: (805) 650-0260<br>FAX: (805) 650-1734 |  |
| DRAWN          |  | 11/07/17   |  | <b>SWITCH, SPDT, HI-POWER, FAILSAFE<br/>N-FEMALE CONNECTORS,<br/>INDICATORS</b>                                                                                                            |  |                                                                                             |  |
| SARA LEE       |  |            |  |                                                                                                                                                                                            |  |                                                                                             |  |
| ENGINEERING    |  | 11/7/2017  |  |                                                                                                                                                                                            |  |                                                                                             |  |
| T. STRASBURGER |  | 11/13/2017 |  | CODE IDENT. NO.                                                                                                                                                                            |  | DWG. NO.                                                                                    |  |
| QUALITY        |  | 11/13/2017 |  | 00471                                                                                                                                                                                      |  | 402A-2X0132                                                                                 |  |
| S. LYNCH       |  | 11/14/2017 |  | SCALE NONE                                                                                                                                                                                 |  | SHEET 1 OF 3                                                                                |  |
| MANUFACTURING  |  |            |  |                                                                                                                                                                                            |  |                                                                                             |  |
| R. GARCIA      |  |            |  |                                                                                                                                                                                            |  |                                                                                             |  |

# OUTLINE DRAWING:



[ ] MILLIMETERS

UNLESS OTHERWISE  
SPECIFIED TOLERANCES  
ARE:  
.XXX  $\pm$ .010 ANGLES:  $\pm$ 3°  
.XX  $\pm$ .030

CODE IDENT. NO.  
**00471**

SCALE NONE

DWG. NO.

**402A-2X0132**

REV.  
**F**

SHEET 2 OF 3

## SPECIFICATION:

### 1.0 RF CHARACTERISTICS:

|                                                                   |         |        |        |        |          |
|-------------------------------------------------------------------|---------|--------|--------|--------|----------|
| 1.1 FREQUENCY (GHz)                                               | DC - 1  | 1 - 2  | 2 - 4  | 4 - 8  | 8 - 12.4 |
| 1.2 VSWR (RATIO MAX)                                              | 1.15:1  | 1.20:1 | 1.25:1 | 1.45:1 | 1.60:1   |
| 1.3 INSERTION LOSS (dB MAX)                                       | 0.15    | 0.20   | 0.25   | 0.40   | 0.60     |
| 1.4 ISOLATION (dB MIN)                                            | 85      | 80     | 70     | 60     | 60       |
| 1.5 RF POWER (WATTS CW MAX)<br>AT SEA LEVEL, +40°C, LOAD VSWR 1:1 | 1000    | 775    | 550    | 400    | 350      |
| 1.6 IMPEDANCE (NOMINAL)                                           | 50 OHMS |        |        |        |          |

### 2.0 ACTUATION DATA:

|     |                 |                   |                                                |
|-----|-----------------|-------------------|------------------------------------------------|
| 2.1 | NOMINAL VOLTAGE | OPERATING VOLTAGE | CURRENT (NOMINAL)<br>@ NOMINAL VOLTAGE & 25 °C |
|     | 12              | 11-14             | 260mA                                          |
|     | 15              | 13-17             | 230mA                                          |
|     | 24              | 20-28             | 145mA                                          |
|     | 28              | 24-32             | 110mA                                          |
|     | 48              | 42-54             | 70mA                                           |

2.2 SWITCHING TIME 20mS MAX

2.3 OPERATING MODE FAILSAFE

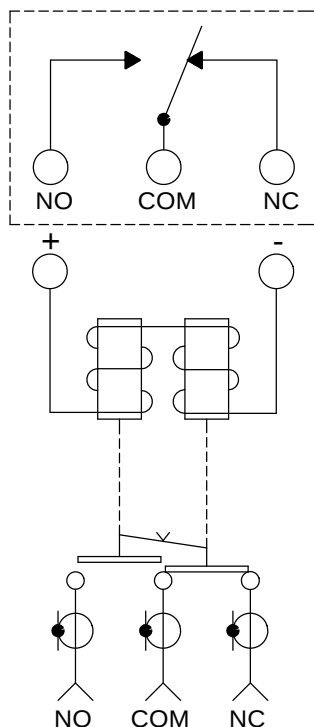
### 3.0 MECHANICAL:

|                         |                          |
|-------------------------|--------------------------|
| 3.1 CONTACT ARRANGEMENT | SPDT                     |
| 3.2 RF CONTACTS         | BREAK BEFORE MAKE        |
| 3.3 WEIGHT              | 7.6oz (215g) 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:                 | GASKET         |

## SCHEMATIC:



SWITCH SHOWN IN THE DE-ENERGIZED POSITION

|                                 |                                |                  |
|---------------------------------|--------------------------------|------------------|
| CODE IDENT. NO.<br><b>00471</b> | DWG. NO.<br><b>402A-2X0132</b> | REV.<br><b>F</b> |
| SCALE NONE                      |                                | SHEET 3 OF 3     |