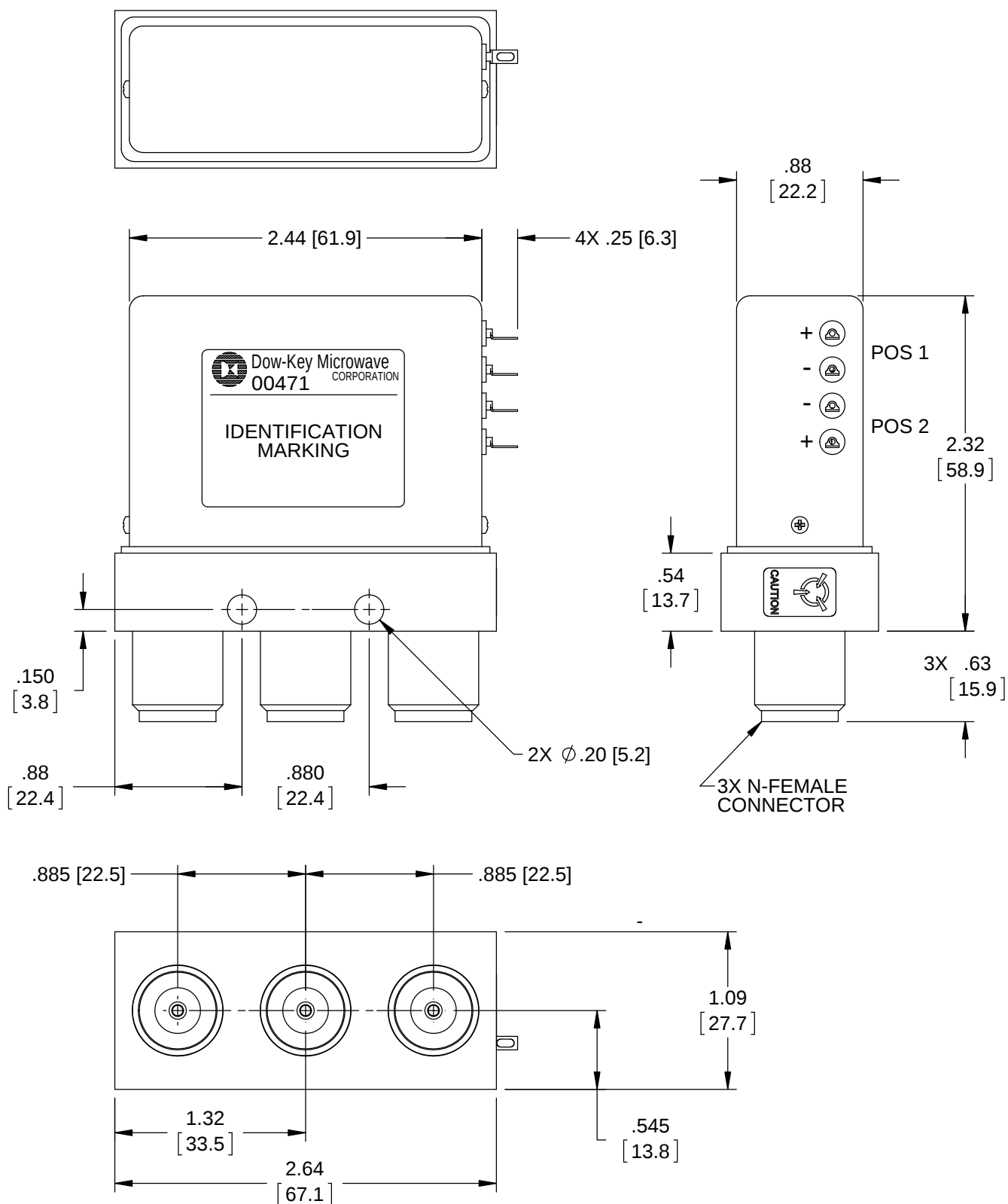


| REVISIONS |                       |         |          |
|-----------|-----------------------|---------|----------|
| REV.      | DESCRIPTION           | DATE    | APPROVED |
| A         | PRODUCTION RELEASE    | 9/21/98 | J.A.     |
| B         | REVISED PER ECO 11519 | 7/26/16 | K.R.     |

| Nominal<br>Coil Voltage | Part Number |
|-------------------------|-------------|
| 12 Vdc                  | 402-4201    |
| 15 Vdc                  | 402-4901    |
| 24 Vdc                  | 402-4801    |
| 28 Vdc                  | 402-4301    |

|                            |   |           |   |  |  |  |                                                                                                                                                                                |                                                                                             |                    |
|----------------------------|---|-----------|---|--|--|--|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------|--------------------|
| 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      |   |  |  |  |                                                                                                                                                                                | <b>SWITCH, SPDT, LATCHING SELF CUT-OFF<br/>N-FEMALE CONNECTORS</b>                          |                    |
| DRAWN<br>SARA LEE          |   | 7/18/2016 |   |  |  |  |                                                                                                                                                                                |                                                                                             |                    |
| ENGINEERING<br>J. WESSELY  |   | 7/20/2016 |   |  |  |  |                                                                                                                                                                                |                                                                                             |                    |
| QUALITY<br>G. WAKEFIELD    |   | 7/25/2016 |   |  |  |  | CODE IDENT. NO.<br><b>00471</b>                                                                                                                                                | DWG. NO.<br><b>402-4X01</b>                                                                 |                    |
| MANUFACTURING<br>R. GARCIA |   | 7/25/2016 |   |  |  |  | SCALE    NONE                                                                                                                                                                  | FINAL ASSY:                                                                                 | SHEET   1   OF   3 |

### OUTLINE DRAWING:



[ ] MILLIMETERS

UNLESS OTHERWISE  
SPECIFIED TOLERANCES  
ARE:

.XXX ±.010      ANGLES: ±3°  
.XX ±.030

CODE IDENT. NO.  
00471

SCALE NONE

DWG. NO.

402-4X01

FINAL ASSY: 402-4301

REV.  
B

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 | 1.40:1 | 1.50:1   |
| 1.3 INSERTION LOSS (dB MAX)        | 0.15    | 0.20   | 0.25   | 0.40   | 0.50     |
| 1.4 ISOLATION (dB MIN)             | 85      | 80     | 70     | 60     | 60       |
| 1.5 RF POWER (WATTS CW MAX)        | 600     | 400    | 300    | 225    | 175      |
| AT SEA LEVEL, +40°C, LOAD VSWR 1:1 |         |        |        |        |          |
| 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             | 300mA                                         |
|     | 15              | 13-17             | 290mA                                         |
|     | 24              | 20-28             | 165mA                                         |
|     | 28              | 24-32             | 125mA                                         |

|                    |                       |
|--------------------|-----------------------|
| 2.2 SWITCHING TIME | 20mS MAX              |
| 2.3 OPERATING MODE | LATCHING SELF CUT-OFF |

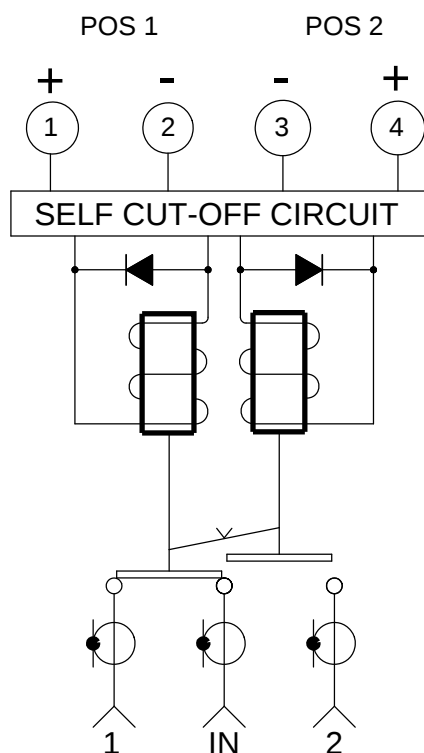
### 3.0 MECHANICAL:

|                         |                          |
|-------------------------|--------------------------|
| 3.1 CONTACT ARRANGEMENT | SPDT                     |
| 3.2 RF CONTACTS         | BREAK BEFORE MAKE        |
| 3.3 WEIGHT              | 7.5oz (212g) 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 SEAL    |

## SCHEMATIC:



|                 |                      |              |
|-----------------|----------------------|--------------|
| CODE IDENT. NO. | DWG. NO.             | REV.         |
| 00471           | 402-4X01             | B            |
| SCALE NONE      | FINAL ASSY: 402-4301 | SHEET 3 OF 3 |