

**SPECIFICATION SHEET****JFW MODEL 50S-1614+XX****1P8T NORMALLY OPENED SELF TERMINATING  
ELECTROMECHANICAL RF SWITCH**JFW Industries, Inc.  
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|                             |                                                                                                                                                                                                                                                                                             |
|-----------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Frequency Range             | DC-18 GHz                                                                                                                                                                                                                                                                                   |
| Configuration               | 1P8T Normally Open Self Terminating                                                                                                                                                                                                                                                         |
| Impedance                   | 50 Ohms nominal                                                                                                                                                                                                                                                                             |
| VSWR                        | 1.20:1 maximum DC-4 GHz<br>1.30:1 maximum 4-8 GHz<br>1.40:1 maximum 8-12 GHz<br>1.50:1 maximum 12-18 GHz                                                                                                                                                                                    |
| Insertion Loss              | 0.20 dB maximum DC-4 GHz<br>0.30 dB maximum 4-8 GHz<br>0.40 dB maximum 8-12 GHz<br>0.50 dB maximum 12-18 GHz                                                                                                                                                                                |
| Isolation                   | 80 dB minimum DC-4 GHz<br>75 dB minimum 4-8 GHz<br>70 dB minimum 8-12 GHz<br>60 dB minimum 12-18 GHz                                                                                                                                                                                        |
| Switching Speed             | 15 milliseconds                                                                                                                                                                                                                                                                             |
| RF Input Power*             | 500 Watts average DC-100 MHz<br>400 Watts average 100-200MHz<br>300 Watts average 200-500MHz<br>200 Watts average 500-1000MHz<br>100 Watts average 1-4 GHz<br>90 Watts average 4-8 GHz<br>70 Watts average 8-12 GHz<br>60 Watts average 12-18 GHz<br>*2 Watts average for self terminations |
| Control (8 lines)           | +XX can be +12, +15, +24 or +28<br>-----<br>+12 (11-14)Vdc @ 325 mA nominal<br>+15 (13-17)Vdc @ 275 mA nominal<br>+24 (20-28)Vdc @ 175 mA nominal<br>+28 (24-32)Vdc @ 150 mA nominal                                                                                                        |
| DC Connector                | Solder Terminals                                                                                                                                                                                                                                                                            |
| RF Connector                | SMA female                                                                                                                                                                                                                                                                                  |
| Operating Temperature Range | -25°C to +65°C                                                                                                                                                                                                                                                                              |
| Physical Size               | See outline drawing 092-6827                                                                                                                                                                                                                                                                |

Add (-NR) for NON-RoHS version. (i.e. 50S-1614+12-NR SMA)

| ECR/ECN # | DATE       | REV | APPR / DATE    | ECR/ECN # | DATE | REV | APPR / DATE |
|-----------|------------|-----|----------------|-----------|------|-----|-------------|
|           | 01/04/2011 |     | BAC 01/04/2011 |           |      |     |             |
| 24842     | 01/07/2015 | A   | BAC 01/07/2015 |           |      |     |             |