

**SPECIFICATION SHEET**

**JFW MODEL 50S-1634+XX**

**1P6T NORMALLY OPENED REFLECTIVE  
ELECTROMECHANICAL RF SWITCH**

JFW Industries, Inc.  
Phone: 317-887-1340  
sales@jfwindustries.com  
www.jfwindustries.com

|                   |   |
|-------------------|---|
| Frequency Range   | DC-40 GHz   |
| Configuration     | 1P6T Normally Open Reflective   |
| Impedance         | 50 Ohms nominal   |
| VSWR              | 1.3:1 maximum DC-6 GHz<br>1.4:1 maximum 6-12 GHz<br>1.5:1 maximum 12-18 GHz<br>1.7:1 maximum 18-26.5 GHz<br>2.0:1 maximum 26.5-40 GHz   |
| Insertion Loss    | 0.3 dB maximum DC-6 GHz<br>0.4 dB maximum 6-12 GHz<br>0.5 dB maximum 12-18 GHz<br>0.7 dB maximum 18-26.5 GHz<br>1.0 dB maximum 26.5-40 GHz  |
| Isolation         | 70 dB minimum DC-6 GHz<br>60 dB minimum 6-12 GHz<br>60 dB minimum 12-18 GHz<br>55 dB minimum 18-26.5 GHz<br>50 dB minimum 26.5-40 GHz   |
| Switching Speed   | 20 milliseconds   |
| RF Input Power    | 40 Watts average DC-6 GHz<br>30 Watts average 6-12 GHz<br>25 Watts average 12-18 GHz<br>15 Watts average 18-26.5 GHz<br>8 Watts average 26.5-40 GHz   |
| Control (6 lines) | +XX is either +12, +15, +24 or +28:<br>-----<br>+12 Vdc @ 325 mA nominal (11-14 Vdc)<br>+15 Vdc @ 280 mA nominal (13-17 Vdc)<br>+24 Vdc @ 190 mA nominal (20-28 Vdc)<br>+28 Vdc @ 160 mA nominal (24-32 Vdc)<br>on control line corresponding to desired port<br>(Only one active port at a time) |
| Lifetime          | 1 million cycles minimum  |
| Weight            | 4 oz. Nominal   |
| DC Connector      | Solder Terminals  |
| RF Connector      | 2.9mm female  |
| Temperature Range | -20°C to +65°C (operating)<br>-55°C to +85°C (storage)  |

**--CONTINUED--**

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Physical Size

See outline drawing 092-5825



| ECR/ECN # | DATE       | REV | APPR / DATE    | ECR/ECN # | DATE | REV | APPR / DATE |
|-----------|------------|-----|----------------|-----------|------|-----|-------------|
|           | 06/27/2008 |     | BAC 06/27/2008 |           |      |     |             |
| 26506     | 04/04/2016 | A   | TRS 04/04/2016 |           |      |     |             |