

**SPECIFICATION SHEET****JFW MODEL 50S-1773+XX****1P4T NORMALLY OPENED REFLECTIVE  
ELECTROMECHANICAL RF SWITCH**

JFW Industries, Inc.  
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|                                   |                                                                                                                                                                                                                                                                                                   |
|-----------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Frequency Range                   | DC-40 GHz                                                                                                                                                                                                                                                                                         |
| Configuration                     | 1P4T 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<br>(cold switched) | 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 (4 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 Ranges                | -25°C to +65°C (operating)<br>-55°C to +85°C (storage)                                                                                                                                                                                                                                            |

**--CONTINUED--**

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Physical Size

See outline drawing 092-8604



| ECR/ECN # | DATE       | REV | APPR / DATE    | ECR/ECN # | DATE | REV | APPR / DATE |
|-----------|------------|-----|----------------|-----------|------|-----|-------------|
|           | 04/04/2016 |     | TRS 04/04/2016 |           |      |     |             |
| 33456     | 07/16/2024 | A   | TRS 07/16/2024 |           |      |     |             |