

**SPECIFICATION SHEET****JFW MODEL 50S-1361+XX-TTL****TRANSFER ELECTROMECHANICAL RF SWITCH**

JFW Industries, Inc.  
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|                  |                                                                                                                                                                                                                     |
|------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Frequency Range  | DC-18 GHz                                                                                                                                                                                                           |
| Configuration    | Transfer Switch                                                                                                                                                                                                     |
| Impedance        | 50 Ohms nominal                                                                                                                                                                                                     |
| VSWR             | 1.10:1 maximum DC-1 GHz<br>1.20:1 maximum 1-4 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   | 0.10 dB maximum DC-1 GHz<br>0.20 dB maximum 1-4 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        | 85 dB minimum DC-1 GHz<br>80 dB minimum 1-4 GHz<br>70 dB minimum 4-8 GHz<br>65 dB minimum 8-12 GHz<br>60 dB minimum 12-18 GHz                                                                                       |
| Switching Speed  | 20 milliseconds                                                                                                                                                                                                     |
| RF Input Power   | 400 Watts average DC-200 MHz<br>300 Watts average 200-500 MHz<br>200 Watts average 500-1000 MHz<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 |
| DC Supply        | +XX is either +12, +15 or +28:<br>-----<br>+12 Vdc @ 360 mA nominal<br>+15 Vdc @ 280 mA nominal<br>+28 Vdc @ 150 mA nominal                                                                                         |
| Control (1 line) | TTL "Low" for (J1 to J3) and (J2 to J4)<br>TTL "High" for (J1 to J2) and (J3 to J4)                                                                                                                                 |
| DC Connector     | Solder Terminals                                                                                                                                                                                                    |
| RF Connector     | SMA female                                                                                                                                                                                                          |

**--CONTINUED--**

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Lifetime (typical) 1 million cycles minimum  
Operating Temperature Range -20°C to +65°C  
Weight 4 oz nominal  
Physical Size See outline drawing 092-4375  
Add (-NR) for NON-RoHS version. (i.e. 50S-1361+XX-TTL-NR SMA)



| ECR/ECN # | DATE       | REV | APPR / DATE    | ECR/ECN # | DATE | REV | APPR / DATE |
|-----------|------------|-----|----------------|-----------|------|-----|-------------|
|           | 08/18/2005 |     | BAC 08/18/2005 |           |      |     |             |
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