

**SPECIFICATION SHEET****JFW MODEL 50S-1735+XX****1P8T LATCHING REFLECTIVE ELECTROMECHANICAL RF SWITCH**

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|                                                           |                                                                                                                                                                                    |
|-----------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Frequency Range                                           | DC-18 GHz                                                                                                                                                                          |
| Configuration                                             | 1P8T Latching Reflective (Self Cutoff)                                                                                                                                             |
| 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 8-12.4 GHz<br>1.50:1 maximum 12.4-18 GHz                                                                       |
| Insertion Loss                                            | 0.20 dB maximum DC-4 GHz<br>0.30 dB maximum 4-8 GHz<br>0.40 dB maximum 8-12.4 GHz<br>0.50 dB maximum 12.4-18 GHz                                                                   |
| Isolation                                                 | 80 dB minimum DC-4 GHz<br>75 dB minimum 4-8 GHz<br>70 dB minimum 8-12.4 GHz<br>60 dB minimum 12.4-18 GHz                                                                           |
| Switching Speed                                           | 15 milliseconds                                                                                                                                                                    |
| RF Input Power<br>(cold switched)                         | 100 Watts average DC-4 GHz<br>80 Watts average 4-8 GHz<br>60 Watts average 8-12.4 GHz<br>45 Watts average 12.4-18 GHz                                                              |
| DC Supply (+ COM)                                         | +XX can be +12,+15,+24 or +28<br>-----<br>+12Vdc(11-14V) @ 550 mA nominal<br>+15Vdc(13-17V) @ 450 mA nominal<br>+24Vdc(20-28V) @ 280 mA nominal<br>+28Vdc(24-32V) @ 240 mA nominal |
| Control (8 lines)                                         | Apply GND to control pin corresponding to desired RF port for a minimum of 15msec to set the position.                                                                             |
| DC Connector                                              | Solder Terminals                                                                                                                                                                   |
| RF Connector                                              | SMA female                                                                                                                                                                         |
| Operating Temperature Range                               | -25°C to +65°C                                                                                                                                                                     |
| Physical Size                                             | See outline drawing 092-7543                                                                                                                                                       |
| Add (-NR) for NON-RoHS version. (I.e. 50S-1735+12-NR SMA) |                                                                                                                                                                                    |

| ECR/ECN # | DATE       | REV | APPR / DATE    | ECR/ECN # | DATE       | REV | APPR / DATE    |
|-----------|------------|-----|----------------|-----------|------------|-----|----------------|
|           | 12/12/2012 |     | BAC 12/12/2012 | 33456     | 07/16/2024 | C   | TRS 07/16/2024 |
| 22810     | 05/07/2013 | A   | BAC 05/07/2013 |           |            |     |                |
| 33155     | 02/06/2024 | B   | BAC 02/06/2024 |           |            |     |                |