

**SPECIFICATION SHEET****JFW MODEL 50PD-698****2 WAY REACTIVE POWER DIVIDER/COMBINER**

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|                                      |  |
|--------------------------------------|--|
| Frequency Range                      | 700-3000 MHz   |
| Impedance                            | 50 Ohms nominal  |
| VSWR                                 | 1.5:1 maximum<br>< 1.4:1 typical   |
| Insertion Loss<br>(above 3 dB split) | 1.7 dB maximum<br>0.18 dB typical @ 700 MHz<br>1.33 dB typical @ 3000 MHz  |
| Amplitude Tracking                   | ± 0.5 dB maximum<br>± 0.26 dB typical  |
| Phase Tracking                       | ± 5° maximum<br>± 2° typical   |
| Isolation                            | 20 dB minimum  |
| RF Input Power*                      | 100 Watts average (divider)<br>25 Watts average per port (combiner)  |
| RF Connector                         | SMA or N female  |
| Temperature Range                    | -40°C to +85°C (operating)<br>-55°C to +100°C (storage)  |
| Operating Altitude                   | up to 40,000ft   |
| Humidity                             | up to 95% relative humidity (non-condensing)   |
| Shock                                | Unit designed to meet but not tested to MIL-STD-202G, Method 213, Test Condition J (30g's, 11ms, 18 shocks in each axis)                   |
| Vibration                            | Unit designed to meet but not tested to MIL-STD-202G, Method 214A, Condition 1, Test Condition Letter C                                    |
| Available Model Numbers              | 50PD-698 N (2-Way)<br>50PD-698 SMA (2-Way)<br>50PD-698-25W-HS N (2-Way with 25W heatsink)<br>50PD-698-25W-HS SMA (2-Way with 25W heatsink) |
| Outline Drawing Numbers              | 092-2502 (N female)<br>092-7955 (N female with 25W heatsink)<br>092-10194 (SMA female)   |

\* If combining two signals that are greater than 20 Watts average, an external heatsink may be required to keep the case temperature under 100°C.

| ECR/ECN # | DATE       | REV | APPR / DATE    | ECR/ECN # | DATE       | REV | APPR / DATE    |
|-----------|------------|-----|----------------|-----------|------------|-----|----------------|
| 18215     | 01/29/2010 | A   | TRS 01/29/2010 | 26539     | 04/12/2016 | D   | TRS 04/12/2016 |
| 22514     | 02/14/2013 | B   | TRS 02/14/2013 | 31070     | 04/16/2021 | E   | TRS 04/16/2021 |
| 23878     | 03/14/2014 | C   | TRS 03/14/2014 | 32992     | 11/08/2023 | F   | TRS 11/08/2023 |