

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 < 1.4:1 typical
Insertion Loss (above 3 dB split)	1.7 dB maximum 0.18 dB typical @ 700 MHz 1.33 dB typical @ 3000 MHz
Amplitude Tracking	± 0.5 dB maximum ± 0.26 dB typical
Phase Tracking	± 5° maximum ± 2° typical
Isolation	20 dB minimum
RF Input Power*	100 Watts average (divider) 25 Watts average per port (combiner)
RF Connector	SMA or N female
Temperature Range	-40°C to +85°C (operating) -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) 50PD-698 SMA (2-Way) 50PD-698-25W-HS N (2-Way with 25W heatsink) 50PD-698-25W-HS SMA (2-Way with 25W heatsink)
Outline Drawing Numbers	092-2502 (N female) 092-7955 (N female with 25W heatsink) 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