

SPECIFICATION SHEET

JFW MODEL 50S-1649+XX

1P2T LATCHING REFLECTIVE ELECTROMECHANICAL RF SWITCH

JFW Industries, Inc.
Phone: 317-887-1340
sales@jfwindustries.com
www.jfwindustries.com

Frequency Range DC-18 GHz

Configuration 1P2T Latching Reflective Self-Cut off

Impedance 50 Ohms nominal

VSWR 1.1:1 maximum to 1 GHz
1.2:1 maximum to 4 GHz
1.3:1 maximum to 8 GHz
1.4:1 maximum to 12.4 GHz
1.5:1 maximum to 18 GHz

Insertion Loss 0.1 dB maximum to 1 GHz
0.2 dB maximum to 4 GHz
0.3 dB maximum to 8 GHz
0.4 dB maximum to 12.4 GHz
0.5 dB maximum to 18 GHz

Isolation 85 dB minimum to 1 GHz
80 dB minimum to 4 GHz
70 dB minimum to 8 GHz
65 dB minimum to 12.4 GHz
60 dB minimum to 18 GHz

Switching Speed 15 milliseconds maximum

RF Input Power 200 Watts maximum DC-1GHz
150 Watts maximum 1-2GHz
100 Watts maximum 2-4GHz
90 Watts maximum 4-8GHz
75 Watts maximum 8-12.4GHz
60 Watts maximum 12.4-18GHz

Control (2 Lines) Voltage must be applied to Pin 2 or Pin 3 for
(Self-Cut Off) 15msec minimum to set
(Pin 2 - Sets J1)
(Pin 3 - Sets J2)
(Pin 1 & 4 are GND) +XX is either +12, +15,+24 or +28:

+12 Vdc @ 230 mA nominal
+15 Vdc @ 200 mA nominal
+24 Vdc @ 190 mA nominal
+28 Vdc @ 120 mA nominal

DC Connector Solder terminals

RF Connector SMA female

Operating Temperature Range -25°C to +65°C

Physical Size See outline drawing 092-6021

Add (-NR) for NON-RoHS version. (I.e. 50S-1649+12-NR SMA)

ECR/ECN #	DATE	REV	APPR / DATE	ECR/ECN #	DATE	REV	APPR / DATE
	12/11/2008		BAC 12/11/2008				
25637	08/10/2015	A	BAC 08/10/2015				
33155	02/06/2024	B	BAC 02/06/2024				