

SPECIFICATION SHEET

JFW MODEL 50S-1317+XX-TTL

1P8T NORMALLY OPENED REFLECTIVE

ELECTROMECHANICAL RF SWITCH

JFW Industries, Inc.

Phone: 317-887-1340

sales@jfwindustries.com

www.jfwindustries.com

Frequency Range	DC-18 GHz
Configuration	1P8T Normally Open Reflective
Impedance	50 Ohms nominal
VSWR	1.20:1 maximum DC-4 GHz 1.30:1 maximum 4-8 GHz 1.40:1 maximum 8-12.4 GHz 1.50:1 maximum 12.4-16 GHz 1.80:1 maximum 16-18 GHz
Insertion Loss	0.20 dB maximum DC-4 GHz 0.30 dB maximum 4-8 GHz 0.40 dB maximum 8-12.4 GHz 0.50 dB maximum 12.4-16 GHz 0.80 dB maximum 16-18 GHz
Isolation	70 dB minimum DC-4 GHz 65 dB minimum 4-8 GHz 60 dB minimum 8-12.4 GHz 60 dB minimum 12.4-16 GHz 55 dB minimum 16-18 GHz
Switching Speed	15 milliseconds maximum
RF Input Power (cold switched)	500 Watts average DC-100 MHz 400 Watts average 100-200 MHz 200 Watts average 200-1000 MHz 100 Watts average 1-4 GHz 70 Watts average 4-8 GHz 60 Watts average 8-12.4 GHz 45 Watts average 12.4-18 GHz
DC Supply	+XX is either +12, +15, +24 or +28: ----- +12Vdc @ 285mA nominal (11-14Vdc range) +15Vdc @ 225mA nominal (13-17Vdc range) +24Vdc @ 140mA nominal (20-28Vdc range) +28Vdc @ 120mA nominal (24-32Vdc range)
Control (8 lines)	TTL "Low" (0-0.8Vdc) for OFF TTL "High" (2.4-5.0Vdc) for ON (Only one port on at a time.)
Lifetime	1 million cycles minimum
DC Connector	Solder Terminals
RF Connector	SMA female
Operating Temperature Range	-25°C to +65°C

--CONTINUED--

SPECIFICATION SHEET

JFW MODEL 50S-1317+XX-TTL

1P8T NORMALLY OPENED REFLECTIVE
ELECTROMECHANICAL RF SWITCH

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

Physical Size

See outline drawing 092-4188

Add (-NR) for NON-RoHS version. (i.e. 50S-1317+12-TTL-NR SMA)



ECR/ECN #	DATE	REV	APPR / DATE	ECR/ECN #	DATE	REV	APPR / DATE
	02/13/2008		BAC 02/13/2008	30913	02/01/2021	C	BAC 02/01/2021
20710	09/30/2011	A	BAC 09/30/2011	33456	07/16/2024	D	TRS 07/16/2024
23086	07/31/2013	B	BAC 07/31/2013				