



RELIANT SWITCH™ SERIES

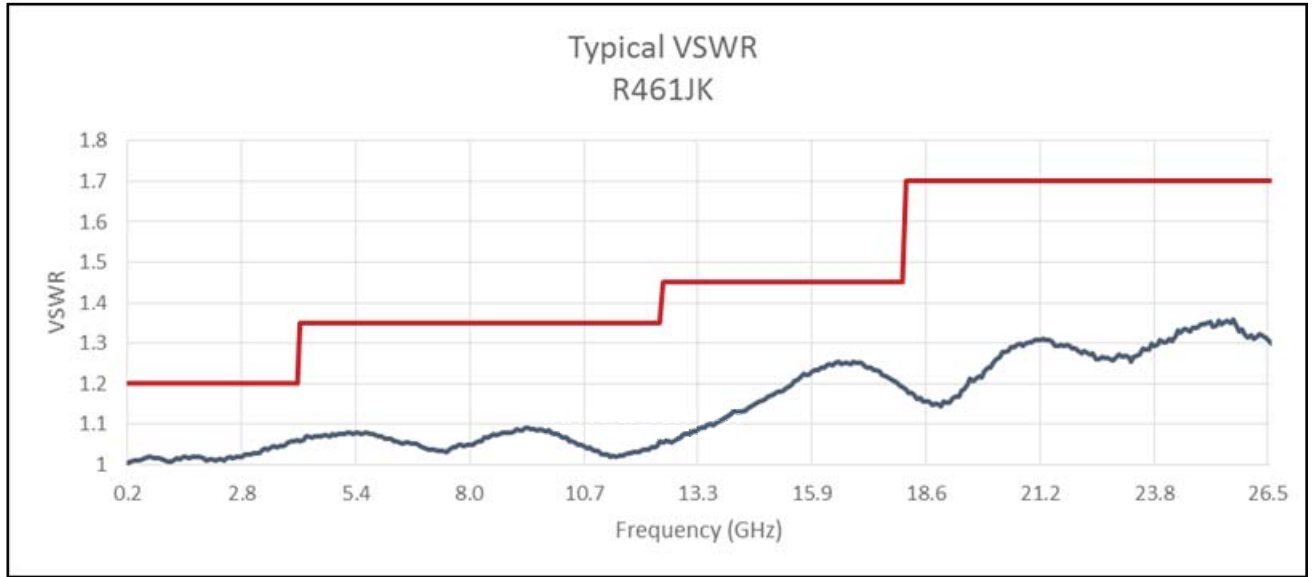
RF switch solution with guaranteed insertion loss repeatability 0.03db
over the design life of 5 million cycles



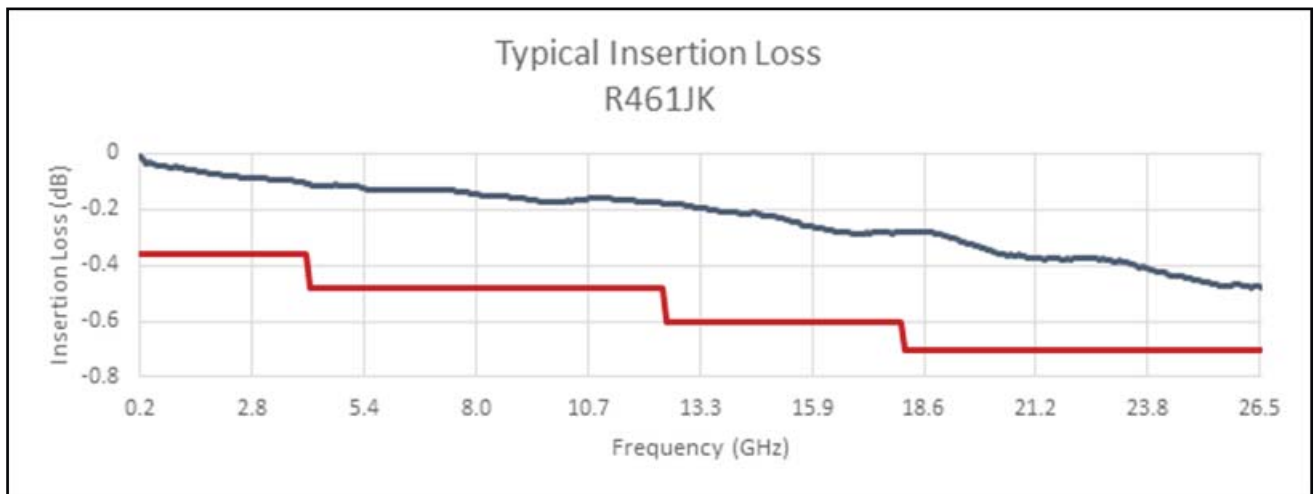
SP6T SWITCH:
R461JK-4X0853
R461JK-4X0853A (TTL)
R461K-4X0853N (CANbus)

RF PERFORMANCE DATA

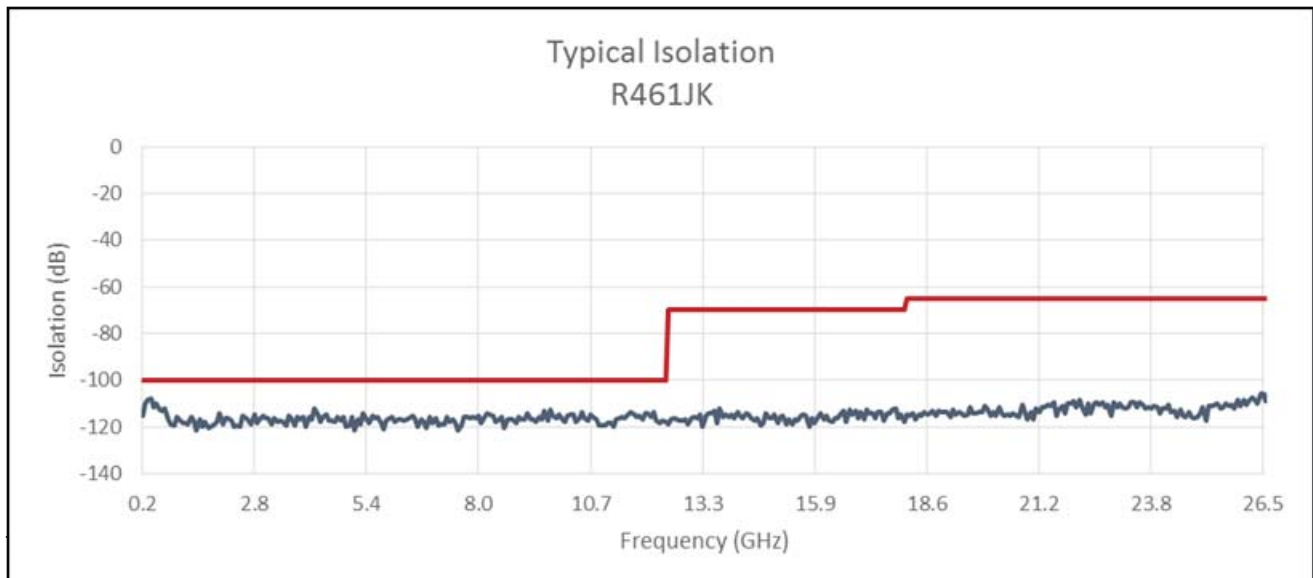
VSWR



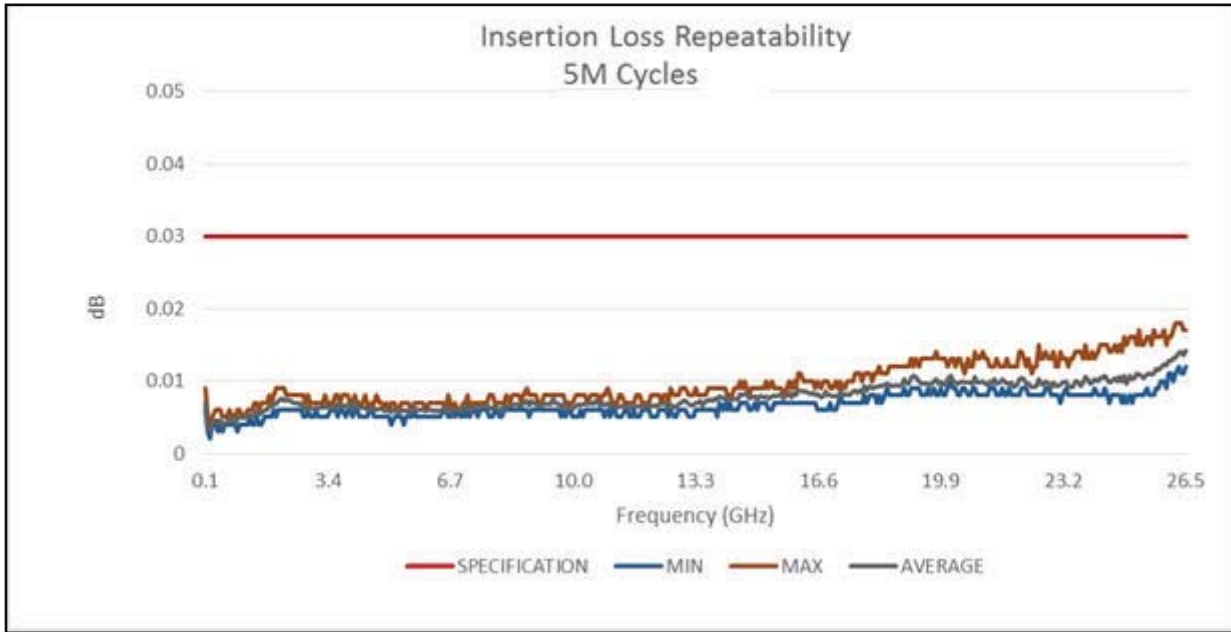
Insertion Loss



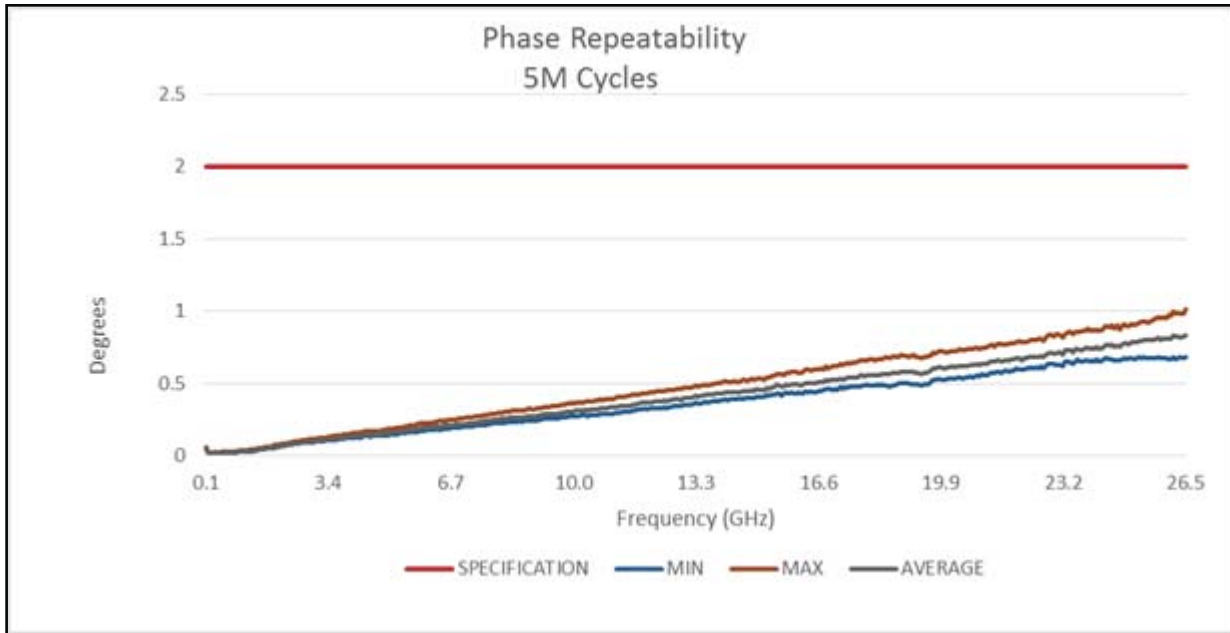
Isolation



INSERTION LOSS REPEATABILITY



PHASE REPEATABILITY



QUALIFICATION TEST

SP6T Reliant Switch has successfully pass qualification testing.

The switch design has been subjected to a very demanding Qualification Process including but not limited to:

- » Thermal Shock – to MIL-STD-202, method 107G, test condition A Modified to 10 cycles from -55°C to +85°C
- » Temperature extremes - Three Cycles of -25 °C to +75°C
- » Altitude Storage Test - MIL-STD-202G, Method 105C, Condition B. Pressure 3.44 inches / 87 mm mercury, 50,000 feet / 15,240 Meters altitude.
- » Sine Vibration Operating - Sine Vibration per MIL-STD-202G, Method 204D, Condition D, 7G peak
- » Sine Vibration Survival - Sine Vibration per MIL-STD-202G, Method 204D, Condition D. 20G peak
- » Random Vibration - MIL-STD-202G, Method 214D, condition 1, 2.41g RMS and 12 minutes per axis.
- » Shock Operating - MIL-STD-202G, Method 213-1, Condition A
- » 5 Million Cycle Life Test with Contact Resistance and Insertion Loss Repeatability Monitoring - 5,000,000 cycles operating the switch at 24V
- » Non-Switching Power Test - 200 Watts CW at 2GHz
- » Hot Switching Power Test - At 2 Watts CW power, cycle one position 17,000 times at 1 Hz at 12GHz and at room temperature.

