

5 Million Cycle Switches

521U Series

Terminated SPDT/ Unterminated DP3T Switch
DC-26.5* GHz

Description:

The 521U Series is a break-before-make SPDT switch noted for its 5 Million actuation life cycle and for its various RF configuration options -- unterminated 2/3 (DP3T) switch, SPDT with 2W or 5W internal terminations, and SPDT with 2W or 5W external terminations

The operational frequency range of the standard 521U switch is from DC to 18 GHz but can be extended to 26.5 GHz with the "K" option. The standard operating temperature of -25 °C to +65°C can be extend as well to -55 °C to +85°C with the "T" option.

The 521U switch is offered in failsafe, pulse latching, or latching self cutoff models and is available with active high or active low TTL operation. There is a choice of 12, 24, or 28 Vdc coil voltage with a maximum switching time of 15 mS. This unit comes with SMA RF connectors and optional indicator circuitry. For other available 521U designs, please contact our factory.

RF Characteristics :

Frequency GHz	VSWR (max)	Isolation dB (min)	Ins. Loss dB (max)
DC-1	1.10	85	0.10
1-4	1.15	80	0.15
4-8	1.20	70	0.20
8-12	1.30	65	0.30
12-18	1.35	60	0.35
18-26.5*	1.50	55	0.50

* "K" option only

Operating Voltages	12 Vdc ; 24 Vdc ; 28 Vdc
Switching Time (max)	15 mS

Actuation Data :

Operating Mode (types)	Failsafe Pulse Latching Latching Self Cutoff
TTL Options	TTL High (active high) TTL Low (active low)

Mechanical :

RF Contacts	Break before make
Weight (nominal)	2.5 oz. (70.9 g.)
Design Life (cycles)	5,000,000

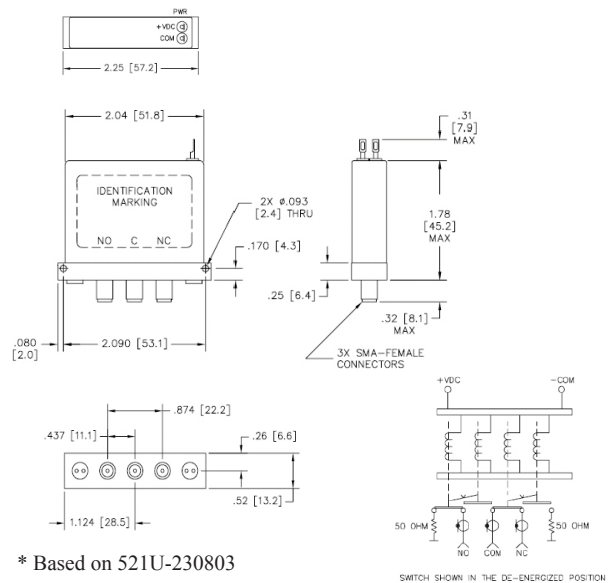


Environmental :

Operating Temperature*	-25 °C to +65°C
Storage Temperature	-55 °C to +85°C
Vibration (Operating)	10 G RMS, 50-2000 Hz
Mechanical Shock (Non-Operating)	50 G, 1/2 Sine, 11 mS
Seal	Epoxy Sealed

* Extended operating temperature is available upon request

Outline Drawing* :



* Based on 521U-230803



Microwave Products

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