

Example:***UV40SPDTP-500-30W-IN, 30W Power Reflective SPDT Switch, 500 MHz*****Description**

This high-power single-pole double-through switch utilizes high power PIN diodes. The design is based on series and shunt diodes that switch between conductance and cutoff positions. An external TTL control operates the internal drivers.

The 30 W output power is over a 50-ohm load.

The customer must ensure that the input signal is within the frequency range of the power switch.

The “on” switching time is measured between 50% of the TTL voltage to 90% of the RF voltage, and the “off” switching time is measured between 50% of the TTL voltage to 10% of the RF voltage.

Electrical Specifications @ 25°C ; 50-Ohm System

Parameter	Symbol	Min	Typ	Max	Unit
Operating Frequency	F _o	500		500	MHz
Output Power for CW	P _{cw}			30	W
Peak Power	P _{pk}			50	W
Nominal Impedance			50		Ohm
Input /Output VSWR			1.5:1	1.8:1	
Insertion Loss				0.7	dB
Isolation		30			dB
Switching Time, ON & OFF				20	μsec
Operating Voltage/Current	V/I		+5/250mA; -50V/50ma		V/mA

Environmental Characteristics

Parameter	Symbol	Min	Typ	Max	Unit
Operating Baseplate Temperature	T _c	10		70	°C

Mechanical Specifications

Parameter	Symbol	Units
Dimensions LxWxD	TBD	mm
RF Input Connectors	SMA, Female	
RF Output Connectors	SMA, Female	
DC Connector	Solder Pins	