

Atlantic Microwave

PIN Diode Switches - SPST

- 0.02 – 18 GHz
- Single Pole Single Throw
- TTL Control
- Absorptive & Reflective
- Octave & Multi-Octave
- High Isolation
- Low Insertion Loss



Operating frequency range 0.02 – 18 GHz



Low Insertion Loss



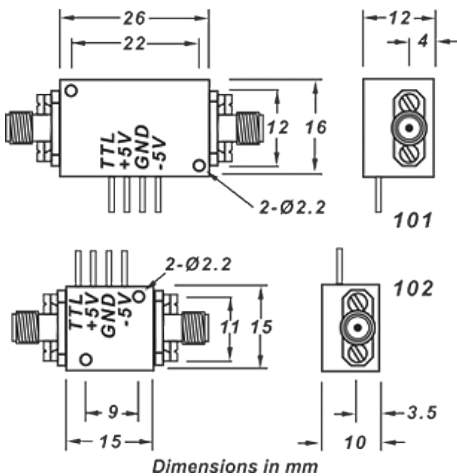
High Isolation



50 Watts

General Specifications	
Impedance	50 ohms
DC Bias	+5 +/-0.5V @ 30mA -5 +/-0.5V @ 30mA
Control	TTL "0" Low Loss TTL "1" Isolation
RF Connectors	SMA female to MIL-C-39012
Bias & Control	Solder Pins
Housing	Gold Plated Brass Standard or Passivated Aluminium Optional
Lid Sealing	Epoxy
Operating Temperature Range	-55 C to +85 C
Custom Options	Higher power, faster speed, higher isolation, non-TTL

Absorptive Switches Model No.	Frequency Range	Insertion Loss (dB)	VSWR	Isolation (dB)	Switching speed (nsec)	RF Power (W CW)	Package
APS-1001-A	0.02 GHz - 0.5 GHz	1.4	1.5	80	100-500	0.2-1	101 / 102
APS-1002-A	0.02 GHz - 3GHz	2.4	2	60	200	0.2	101 / 102
APS-1003-A	0.5 GHz - 1 GHz	1.5	1.5	80	100	0.2	101 / 102
APS-1004-A	1 GHz - 2GHz	1	1.5	80	50	0.2	101 / 102
APS-1005-A	2 GHz - 4GHz	1.6	1.5	80	50	0.2	101 / 102
APS-1006-A	2 GHz - 18GHz	3.1	2.2	60	50	0.2	101 / 102
APS-1008-A	4 GHz - 8GHz	2	1.6	60	50	0.2	101 / 102
APS-1009-A	8GHz - 12 GHz	2.5	1.5	60	50	0.2-2	101 / 102
APS-1010-A	12GHz - 18 GHz	3.2	2	60	50	0.2	101 / 102



Reflective Switches Model No.	Frequency Range	Insertion Loss (dB)	VSWR	Isolation (dB)	Switching speed (nsec)	RF Power (W CW)	Package
APS-1001-R	0.02 GHz - 0.5 GHz	1.2	1.5	80	100-500	0.2-1	101 / 102
APS-1002-R	0.02 GHz - 3GHz	2.2	2	60	200	0.2	101 / 102
APS-1003-R	0.5 GHz - 1 GHz	1.3	1.5	80	100	0.2	101 / 102
APS-1004-R	1 GHz - 2GHz	0.8	1.5	80	50	0.2	101 / 102
APS-1005-R	2 GHz - 4GHz	1.2	1.5	80	50	0.2-1	101 / 102
APS-1006-R	2 GHz - 18GHz	2.2	2.2	55	50	0.2-1	101 / 102
APS-1007-R	2 GHz - 18GHz	2.4	2.2	80	50	0.2-1	101 / 102
APS-1008-R	4 GHz - 8GHz	1.5	1.6	60	50	0.2	101 / 102
APS-1009-R	8GHz - 12 GHz	1.8	1.7	60	50	0.2	101 / 102
APS-1010-R	12GHz - 18 GHz	2.2	2	60	50	0.2	101 / 102

Note 1: The specification is subject to regular reviews and will be updated from time to time as part of our continuing product development and improved spec accuracy.
 Note 2: Operation beyond the quoted limits stated above may cause instantaneous and permanent damage.

