

# 6-18GHz Broadband Switch

P/N: MZSP16T0618GA



## Description:

The switch is a broadband PIN switch with a typical Loss insertion of 7.5 dB and a high isolation of 60dB across the frequency range of 6 to 18 GHz. The typical switch speed 50ns. The DC power requirement for the switch is +/-5 V/50 mA. Accept customization according to different needs.



- Radar Systems
- Communication Systems
- Receivers Systems

## Electrical Specifications ( +25°C ) :

Parameter	Min.	Typ.	Max.	Units
Frequency Range		6-18		GHz
Insertion Loss		7.5	8.5	dB
Isolation	60			dB
Input VSWR		1.5	2.0	-
Output VSWR		1.5	2.0	-
Switch Speed		50	100	ns
Power Handling	1			W
IIP3		60		dBm
DC Current (Vcc=+/-5V)		800/150		mA
Control Logic TTL		0/+5		V
DC and control interface		J30J-9ZKP		-
Impedance		50		$\Omega$
Input Output Connector		SMA-K/SMA-K		
Switch type		Absorption		
Material		Aluminium\Gold Painting		
Weight		100g		
Package Sealing		General Sealing (Standard)		

## Environmental Specifications:

- ※ Operational Temperature -25°C~+85°C
- ※ Storage Temperature -55°C~+125°C



OBSERVE  
PRECAUTIONS ELECTROSTATIC  
SENSITIVE DEVICES

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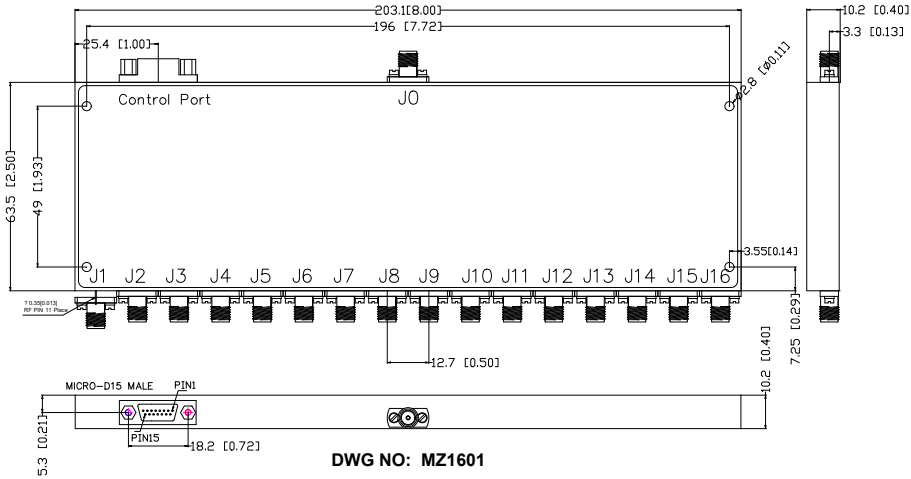
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## Outline Drawing

All Dimensions in mm (inches) Tolerance  $\pm 0.25$  (0.01)



Truth Table				
TTL Control Input				Signal Path State
C4	C3	C2	C1	
0	0	0	0	J0-J1
0	0	0	1	J0-J2
0	0	1	0	J0-J3
0	0	1	1	J0-J4
0	1	0	0	J0-J5
0	1	0	1	J0-J6
0	1	1	0	J0-J7
0	1	1	1	J0-J8
1	0	0	0	J0-J9
1	0	0	1	J0-J10
1	0	1	0	J0-J11
1	0	1	1	J0-J12
1	1	0	0	J0-J13
1	1	0	1	J0-J14
1	1	1	0	J0-J15
1	1	1	1	J0-J16

TTL Control Voltages & VDD	
Stage	Bias Condition
VDD	+5V ( $\pm 5\%$ )
VEE	-5V ( $\pm 5\%$ )
Low	0 to 0.8Vdc
High	2.0 to +5.0Vdc

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
C1	C2	C3	C4	NC	NC	NC	NC	GND	+5V	-5V	GND	+5V	-5V	NC

### NOTE:

- The product is designed to meet environmental ratings but not tested. If you need to test environmental condition, please contact our sales department.
- Miczen technologies co., Ltd. reserves the right to change the above information without notice.

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