

SMA Transfer Switch

Latching Type DC-18GHz

RF SPEC.

Frequency Range	DC-3GHz	3-6GHz	6-12GHz	12-18GHz
VSWR	<1.20	<1.30	<1.40	<1.50
Insertion Loss	<0.2dB	<0.3dB	<0.4dB	<0.5dB
Isolation	>80dB	>70dB	>65dB	>60dB
Power Handling(CW)	85W	60W	50W	30W

*Condition: VSWR=1.1, 25℃, sea level, cold switching

- . RF Impedance: 50 ohm
- . Operating Voltage: DC12V/460mA(DC24V/185mA)
- . Switching Time: <20ms
- . Life:>1000000 cycles
- . Switching Sequence: Break Before Make
- . Operating Temperature: -30 ~ +65℃
- . RF Interface: SMA female



P/N SPEC.:

Series	Control Voltage	Frequency Range	COM Polarity	TTL Function	Self cut-off Circuits	Indicator	Terminals	Plug	Option Function
L2S2	☐ ☐	☐ ☐	☐	☐	☐ ☐	☐ ☐	☐ ☐	☐ ☐	-V (Anti Vibration) -W (Splash)
	0 5 DC5V		Negative	NO TTL	No	No	Solder	NO Plug	
	1 2 DC12V		R Positive	T1 1CH TTL	S With	I With	D DB9 male	P With Plug	
	1 5 DC15V	0 3 DC-3GHZ		T2 2CH TTL					
	2 4 DC24V	0 6 DC-6GHZ							
	2 8 DC28V	1 2 DC-12GHZ							

P/N Samples

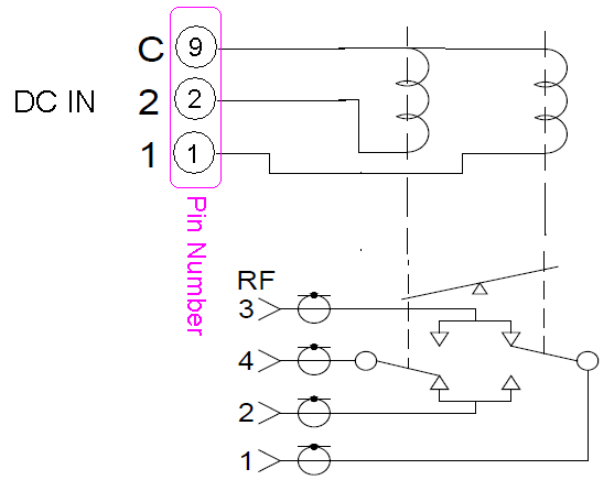
- L2S21206-I (Latching Type Transfer Switch/DC12V(COM port Negative)/DC-6GHZ/SMA female/With Indicator/solder)
- L2S22403R-D-P (Latching Type Transfer Switch/DC24V(COM port Positive)/DC-3GHZ/SMA female/DB9 male/With Plug)
- L2S21512T2-S-I-D-P-V(Latching Type Transfer Switch/DC15V/DC-12GHZ/SMA female/2 channels TTL Control/
With self cut-off circuits/With Indicator/DB9 male/With Plug/ Anti Vibration)
- L2S22806T1-S-D-P(Latching Type Transfer Switch/DC28V/DC-6GHZ/SMA female/1 channels TTL Control/
With self cut-off circuits/DB9 male/With Plug)

Note 1) No COM Port Polarity SPEC. for TTL Control

2) 1CH TTL Control type has same function with Failsafe Type(With TTL control)

SCHEMATIC

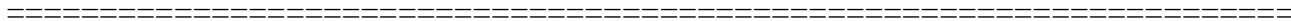
Voltage Control



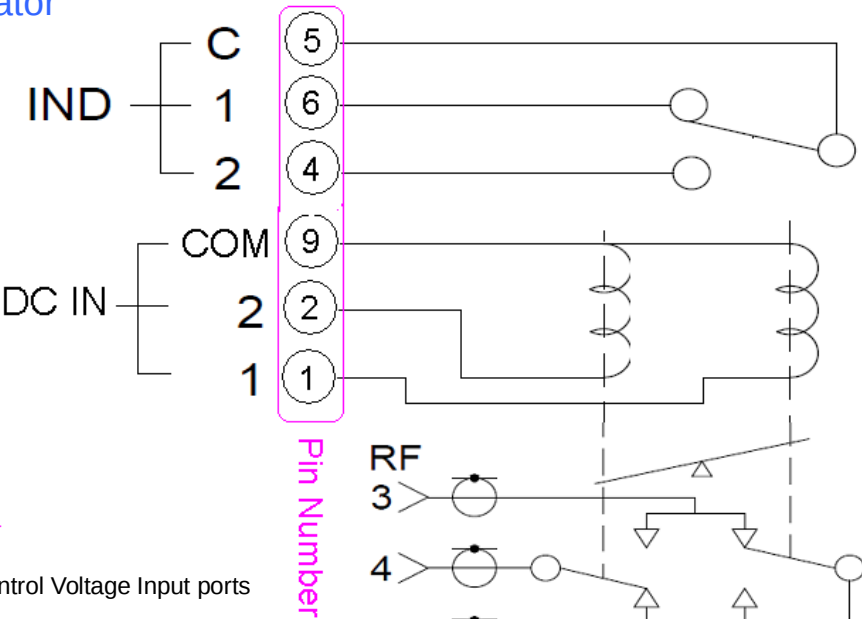
C –COM port (Pin9)
(This Port need SPEC. for Polarity)

1 (Pin1) ,2 (Pin2) Control Voltage Input Ports

DC IN	RF ON	RF OFF
1-C=V,2-C=0V	J1-J3	J1-J2
	J2-J4	J3-J4
1-C=0V,2-C=V	J1-J2	J1-J3
	J3-J4	J2-J4



Voltage Control with Indicator

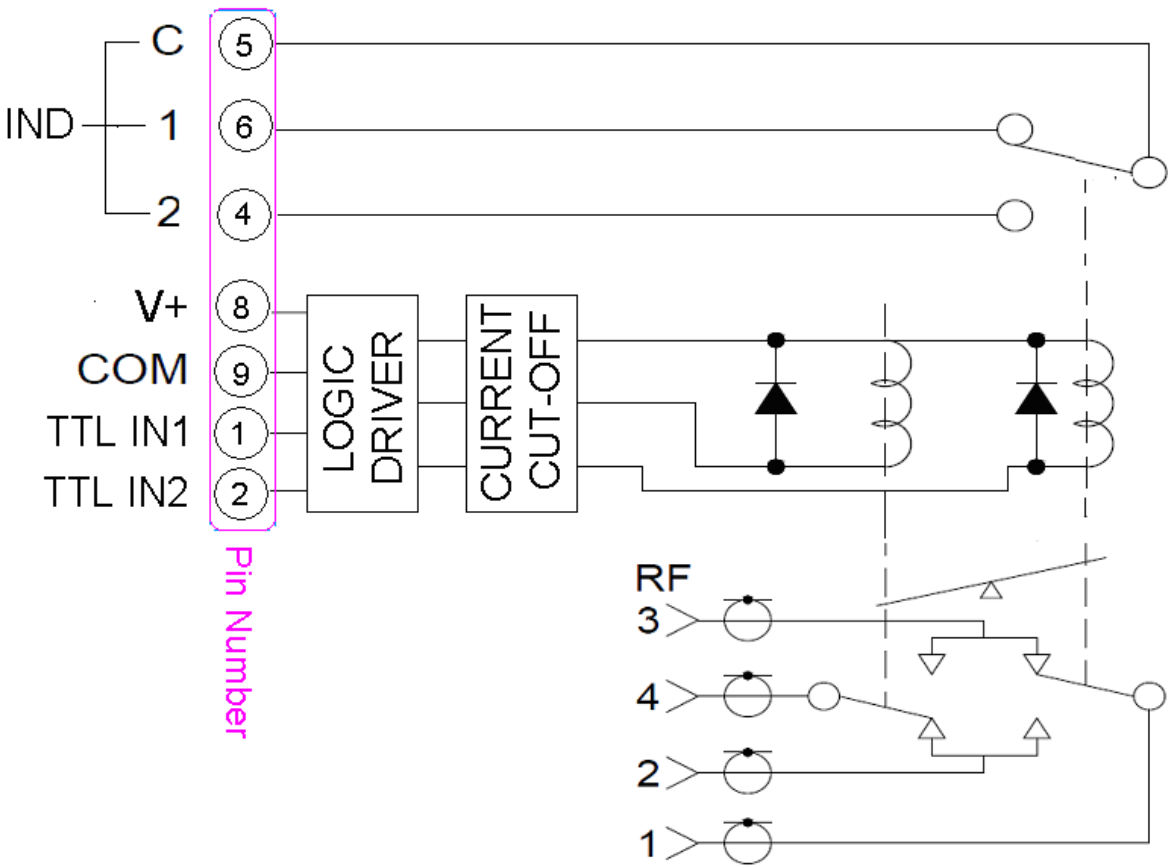


Voltage Control Part:
DC IN COM is COM Port (Pin9)
(This Port need SPEC. for Polarity)
DC IN 1 (Pin1) ,DC IN 2 (Pin2) are Control Voltage Input ports

IND (Indicator) Part:
C (Pin5) is COM Port for Indicator
1 (Pin6) is “1” for Indicator
2 (Pin4) is “2” for Indicator

DC IN	RF ON	RF OFF	IND	
1-C=V,2-C=0V	J1-J3 ; J2-J4	J1-J2 ; J3-J4	C-1 ON	C-2 OFF
1-C=0V,2-C=V	J1-J2 ; J3-J4	J1-J3 ; J2-J4	C-1 OFF	C-2 ON

2 Channels TTL Control with Indicator:



TTL IN	RF ON	RF OFF	IND	
TTL IN1="1";TTL IN2="0"	J1-J3 ; J2-J4	J1-J2 ; J3-J4	C-1 ON	C-2 OFF
TTL IN1="0";TTL IN2="1"	J1-J2 ; J3-J4	J1-J3 ; J2-J4	C-1 OFF	C-2 ON

Logic "1" =2.5-5.0V

Logic "0" =0-0.8V

Pin Number SPEC. :

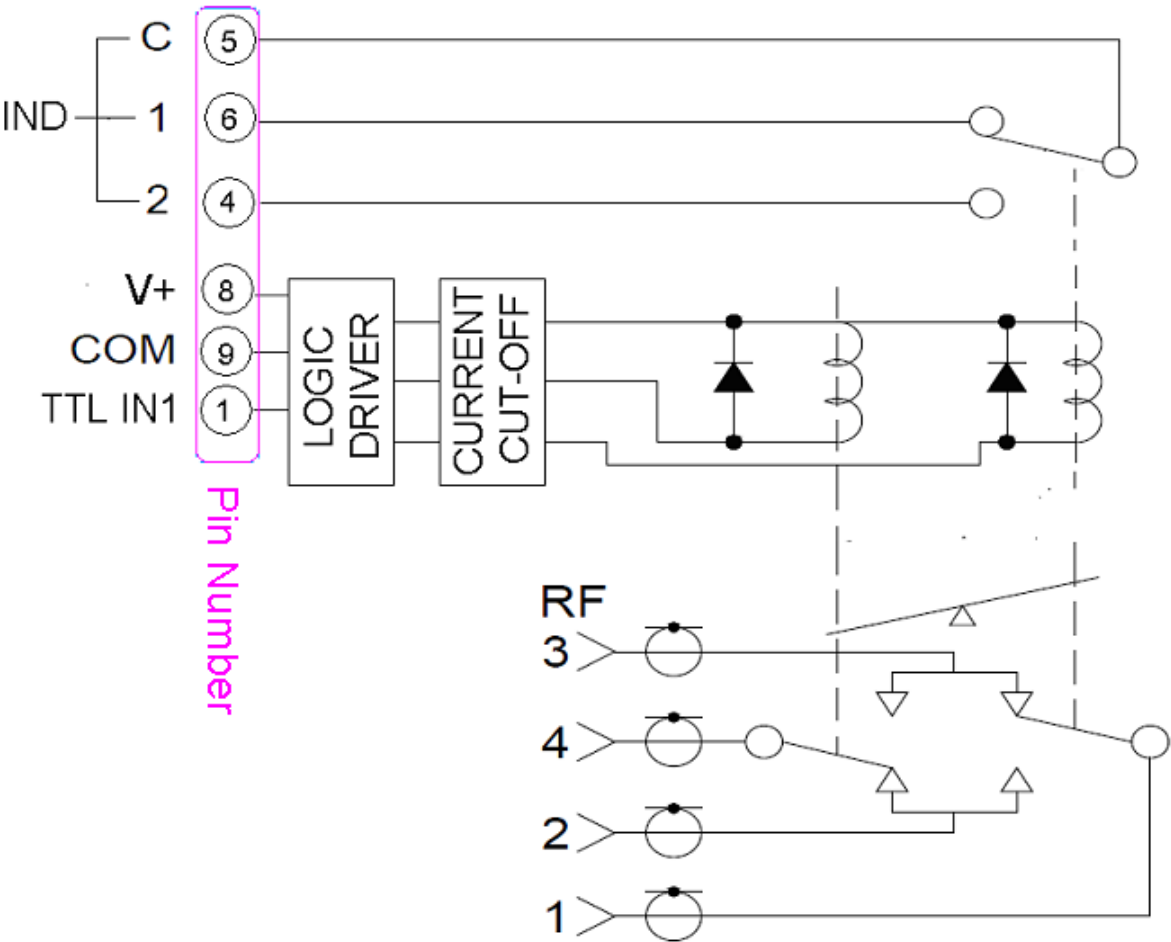
Pin1,Pin2:TTL Logic Inputs

Pin9: COM RTN for TTL& Control Voltage

Pin8:Control Voltage Positive Port

Pin4,5,6:For Indicator

1 Channel TTL Control with Indicator:



TTL IN	RF ON	RF OFF	IND	
TTL IN1="1";TTL IN2="0"	J1-J3 ; J2-J4	J1-J2 ; J3-J4	C-1 ON	C-2 OFF
TTL IN1="0";TTL IN2="1"	J1-J2 ; J3-J4	J1-J3 ; J2-J4	C-1 OFF	C-2 ON

Logic "1" =2.5-5.0V

Logic "0" =0-0.8V

Pin Number SPEC. :

Pin1:TTL Logic Inputs

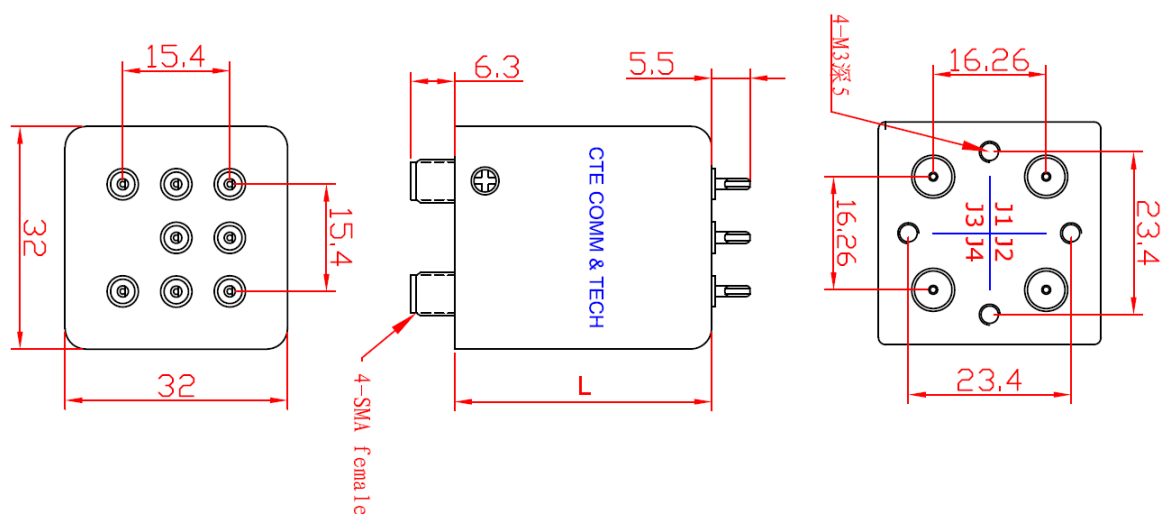
Pin9: COM RTN for TTL& Control Voltage

Pin8:Control Voltage Positive Port

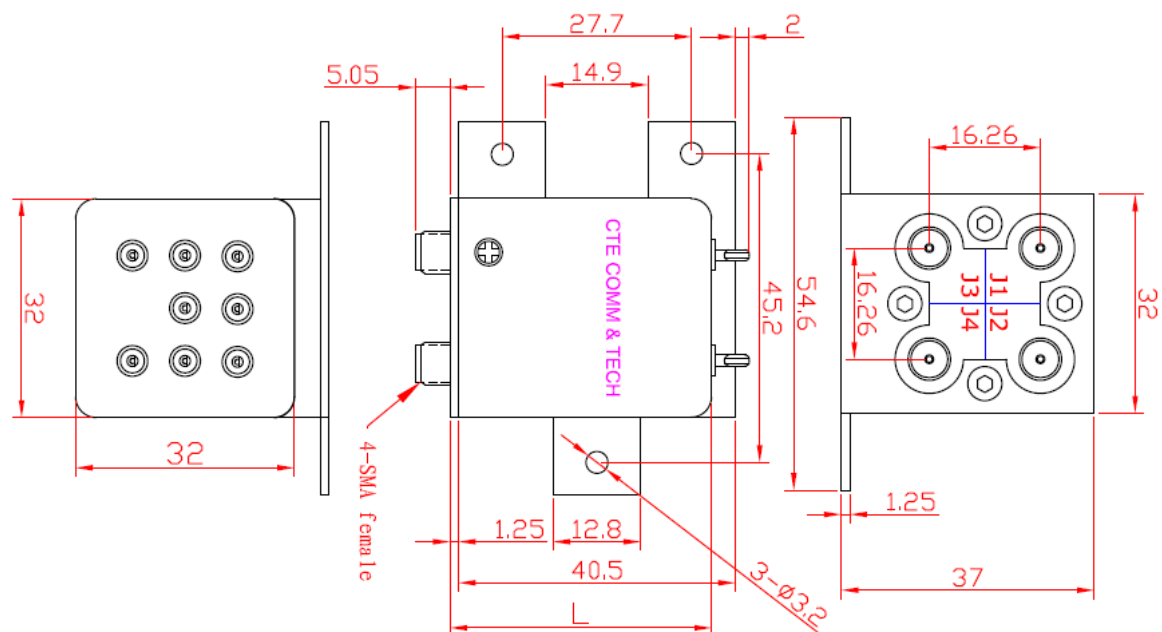
Pin4,5,6:For Indicator

Solder Terminal Outline(mm)

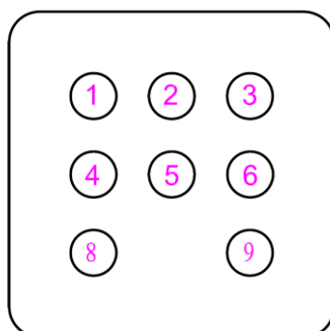
No Plug L=37mm(NO TTL Control) L=46mm(With TTL Control)



With Plug L=37mm(NO TTL Control) L=46mm(With TTL Control)

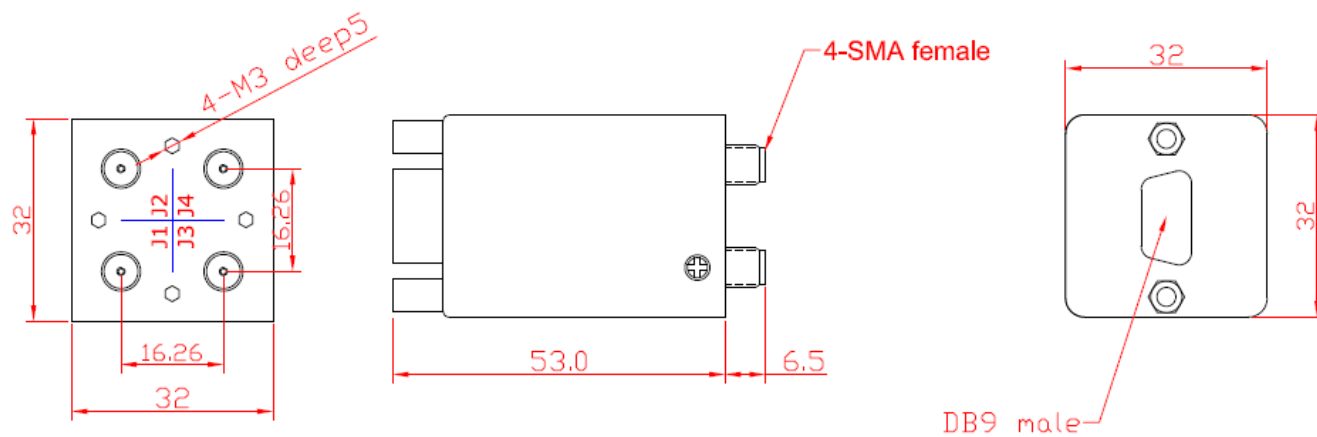


Solder Terminal



DB9 male Outline (mm)

NO Plug



With PLUG

