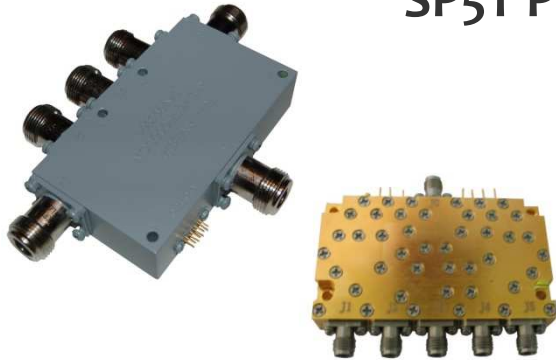




Absorptive and Reflective SP5T PIN Diode Switch



Features

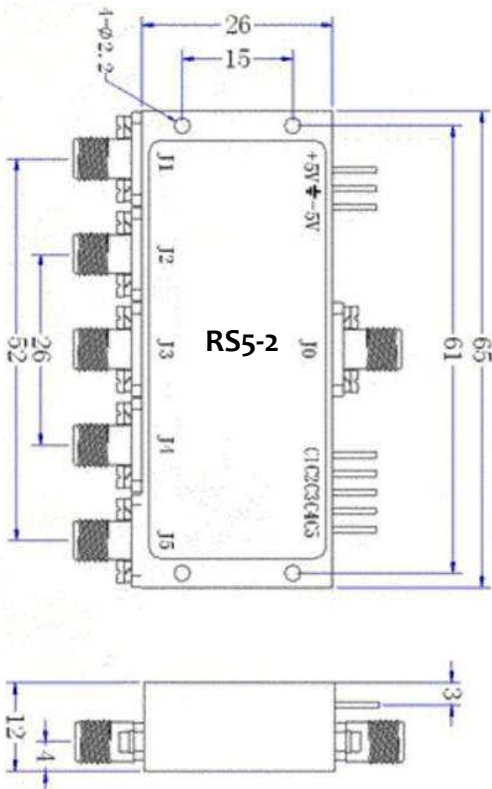
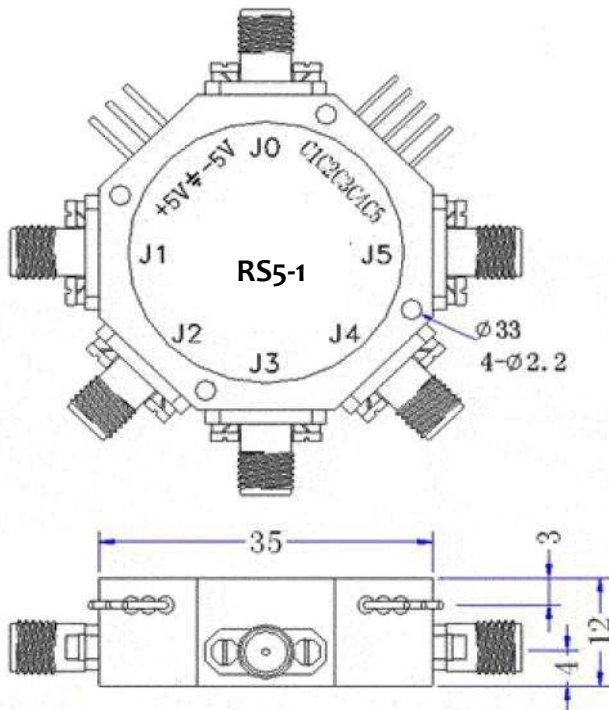
- Wide Band Operation
- High Power up to 200W upon request.
- TTL compatible driver include
- Fast Switching Speed
- Low Insertion Loss and High Isolation
- Temperature Range -55°C~+85°C
- Customization available upon request

Absorptive SP5T Switch

Part Number	Frequency (GHz)	Insert. Loss (dB)	VSWR (Max:1)	Isolation (dB)	Avg. Power (Watts)	Speed (ns)
RFSP5TA0002M	0.001~0.2	1.60	1.50	70	1~5	1000
RFSP5TA0005M	0.02~0.5	1.60	1.50	80	1~5	100~500
RFSP5TA0001G	0.02~1.0	1.70	1.50	70	1~5	100
RFSP5TA0501G	0.5~1.0	1.70	1.50	80	1~5	100
RFSP5TA0102G	1~2	1.50	1.50	80	1~5	50
RFSP5TA0003G	0.02~3.0	2.80	1.70	60	1~5	100
RFSP5TA0004G	0.5~4.0	2.00	1.50	60	1~5	50
RFSP5TA0204G	2~4	1.90	1.50	80	1~5	50
RFSP5TA0208G	2~8	2.40	2.00	60	1	50
RFSP5TA0612G	6~12	3.00	2.00	60	1	50
RFSP5TA0218B	2~18	3.90	2.20	60	1	50
RFSP5TA0618G	6~18	3.80	2.00	60	1	50
RFSP5TA0118G	1~18	3.0	2.00	60	1	50

Reflective SP5T Switch

Part Number	Frequency (GHz)	Insert. Loss (dB)	VSWR (Max:1)	Isolation (dB)	Avg. Power (Watts)	Speed (ns)
RFSP5TR0002M	0.001~0.2	1.50	1.50	70	1~200	1000
RFSP5TR0005M	0.02~0.5	1.50	1.50	80	1~200	100~500
RFSP5TR0001G	0.02~1.0	1.60	1.50	70	1~100	100~500
RFSP5TR0501G	0.5~1.0	1.60	1.50	80	1~200	100~500
RFSP5TR0102G	1~2	1.30	1.50	80	0.2~200	100~500
RFSP5TR0003G	0.02~3.0	2.60	1.70	60	1~100	100~500
RFSP5TR0004G	0.5~4.0	2.00	1.50	60	1~100	100~500
RFSP5TR0204G	2~4	1.50	1.50	80	1~100	100~500
RFSP5TR0208G	2~8	2.40	2.00	60	1~50	100~500
RFSP5TR0612G	6~12	3.00	2.00	60	1~30	100~500
RFSP5TR0218G	2~18	3.00	2.20	80	1~10	100~500
RFSP5TR0618G	6~18	3.50	2.00	60	1~10	100~500



Electrical Operation

DC Biasing: +5.0V (+/-0.5V 200mA max.)
-5.0V (+/-0.5V 50mA max.)

TTL Logic Control:

Logic 0: Insertion Loss

Logic 1: Isolation

C1 Control J1-J0

C2 Control J2-J0

C3 Control J3-J0

C4 Control J4-J0

C5 Control J5-J0

Power Handle: 0.2W ~200W

Mechanical Specification

Case Style: RS5-1 & RS5-2

Finishing: Gold plating for brass material
Other finishing available

Connector: SMA-F Per MIL-C-39012

Control PIN: 0.02" dia x 0.15" solder pins

Weight: 70 grams max.

Mounting: (4) 0.085" dia through holes

Material: Passivation for Aluminium material

Note: Contact RF-Lambda for faster switching speed, higher power handle, higher isolation

1.Higher power handle capability will give lower isolation , higher biasing current and slower switching speed.

2.Narrower frequency band will improve insertion loss and isolation.