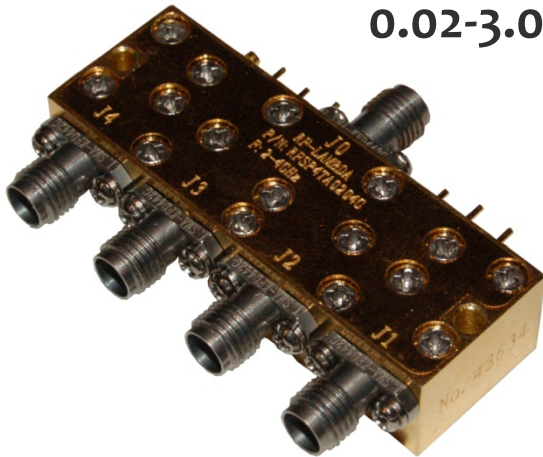




Absorptive and Reflective 0.02-3.0GHz Coaxial SP4T



Features

- Wide Band Operation 0.02-3.0GHz
- High Power Handle Capability up to 50W upon request.
- TTL compatible driver include
- Fast Switching Speed
- Low Insertion Loss and High Isolation
- Temperature Range -40°C~+85°C
- Customization available upon request

Absorptive SP4T- Single Pole Double Throw						
Part Number	Frequency (GHz)	Insert. Loss (dB)	VSWR (Max:1)	Isolation min (dB)	Power (Watts)	Switching Speed (ns)
RFSP4TA0003G	0.02-3.0	2.7	2.0	70	0.2~1.0	50~100
Reflective SP4T- Single Pole Double Throw						
Part Number	Frequency (GHz)	Insert. Loss (dB)	VSWR (Max:1)	Isolation min (dB)	Power (Watts)	Switching Speed (ns)
RFSP4TR0003G	0.02-3.0	2.0	2.2	60	1W~50W	100~500

Mechanical Specification

Finishing: Gold plating
 Connector: SMA-F Per MIL-C-39012
 Control PIN: 0.02" dia. x 0.15" solder pins
 Weight: 60 grams max.

TTL Logic Control:

"0"→ON, "1"→OFF, 3.6V < "1" < 5V

Electrical Operation

DC Biasing:

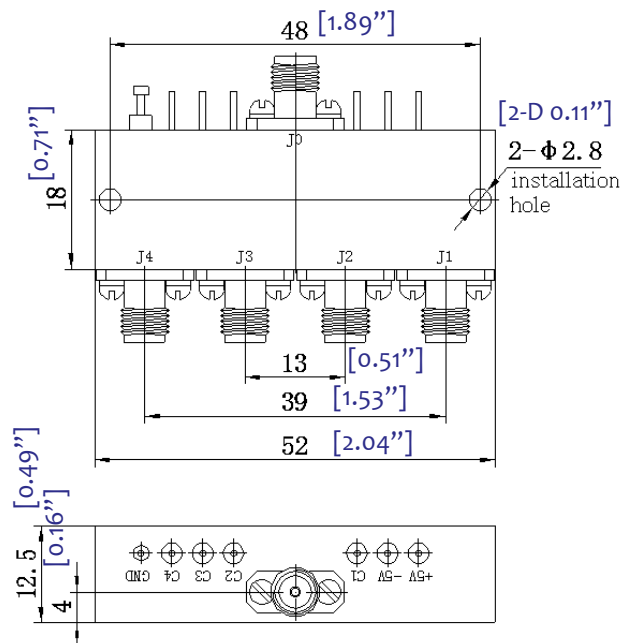
+5.0V (+/-0.5V 30mA max.)

-5.0V (+/-0.5V 30mA max.)

C4	C3	C2	C1	
1	1	1	0	J1
1	1	0	1	J2
1	0	1	1	J3
0	1	1	1	J4

High Voltage Biasing is required for high RF power model.

Power Handle: 0.2W~50W (upon request)



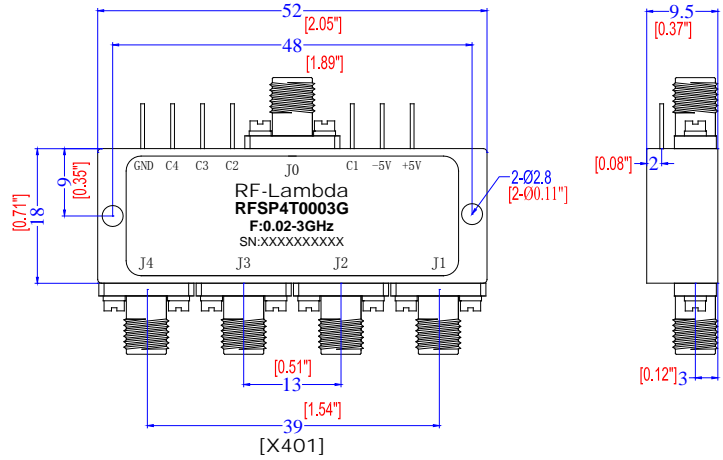
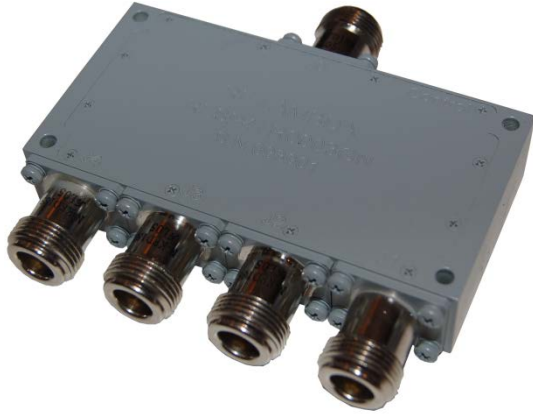


RF-LAMBDA

The power beyond expectations

0.02-3.0GHz PIN SP4T

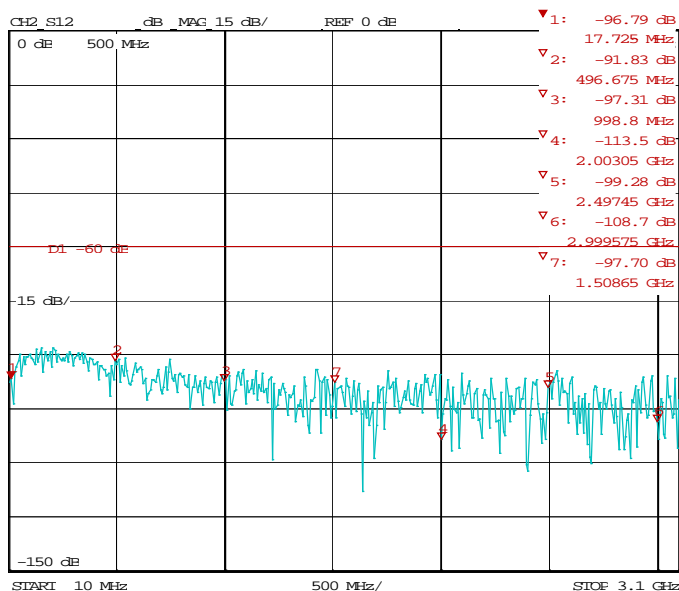
5W model as shown below



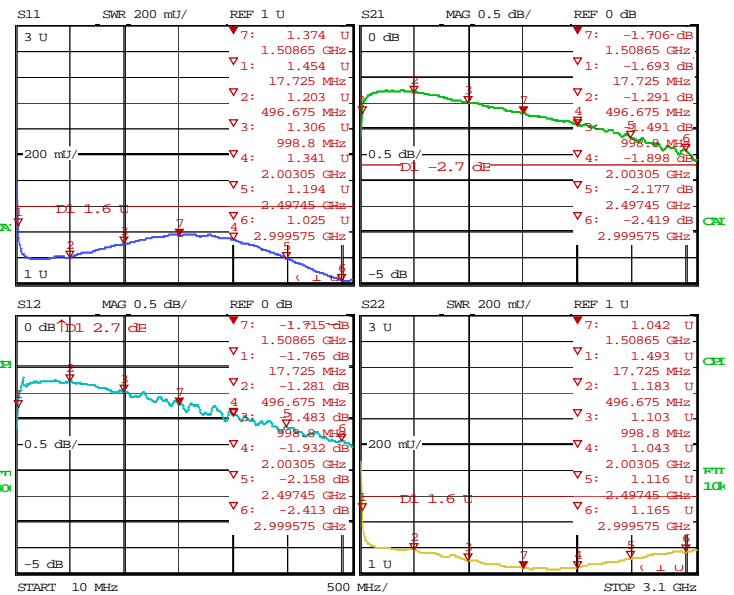
Pin	1	2	3	4
	+5V	-12V	GND	TTL1
Pin	5	6	7	8
	TTL2	TTL3	TTL4	

Control Signal	ON
TTL1~TTL4 : 0001	J0~J1
TTL1~TTL4 : 0010	J0~J2
TTL1~TTL4 : 0100	J0~J3
TTL1~TTL4 : 1000	J0~J4

Ports	Function
J1	OUTPUT1
J2	OUTPUT2
J3	OUTPUT3
J4	OUTPUT4
J0	INPUT



Date: 18.MAY.11 16:38:20



Date: 18.MAY.11 16:14:53

Absorptive / Reflective Coaxial Single Pole Four Throw Switch 0.02-3.0.0GHz



5W 0.02-3.0GHz result as shown below

Temperature +25C Degree							
SN (No.)	Freq Status	S11(Max) ≤ 2.2	S22(Max) ≤ 2.2	IL<2.0(dB)			ISO(min)>60(dB)
		20MHz~3.0GHz		20MHz	1.5GHz	3.0GHz	20MHz~3.0GHz
0901	Jo-J1	1.67	1.45	0.50	0.57	1.83	75
	Jo-J2	1.69	1.48	0.51	0.51	1.71	76
	Jo-J3	1.64	1.43	0.51	0.49	1.62	70
	Jo-J4	1.66	1.44	0.52	0.55	1.78	75
0902	Jo-J1	1.60	1.54	0.54	0.53	1.63	75
	Jo-J2	1.64	1.47	0.52	0.51	1.81	78
	Jo-J3	1.72	1.55	0.52	0.55	1.34	84
	Jo-J4	1.69	1.47	0.53	0.58	1.79	73
0903	Jo-J1	1.53	1.38	0.51	0.43	1.65	72
	Jo-J2	1.69	1.49	0.50	0.46	1.79	75
	Jo-J3	1.58	1.42	0.51	0.44	1.40	74
	Jo-J4	1.55	1.40	0.52	0.52	1.83	74
0904	Jo-J1	1.51	1.51	0.92	0.52	1.45	77
	Jo-J2	1.58	1.50	0.95	0.46	1.19	76
	Jo-J3	1.61	1.52	0.96	0.45	1.20	76
	Jo-J4	1.68	1.72	0.98	0.61	1.57	77
Temperature +70C Degree							
SN (No.)	Freq Status	S11(Max) ≤ 2.2	S22(Max) ≤ 2.2	IL<2.0(dB)			ISO(min)>60(dB)
		20MHz~3.0GHz		20MHz	1.5GHz	3.0GHz	20MHz~3.0GHz
0901	Jo-J1	∥	∥	0.57	0.73	1.92	80
	Jo-J2	∥	∥	0.56	0.64	1.82	78
	Jo-J3	∥	∥	0.57	0.62	1.66	76
	Jo-J4	∥	∥	0.57	0.73	1.96	73
0902	Jo-J1	∥	∥	0.57	0.72	1.93	76
	Jo-J2	∥	∥	0.57	0.61	1.97	65
	Jo-J3	∥	∥	0.56	0.64	1.55	65
	Jo-J4	∥	∥	0.56	0.71	1.99	76
0903	Jo-J1	∥	∥	0.55	0.58	1.86	70
	Jo-J2	∥	∥	0.53	0.57	1.92	72
	Jo-J3	∥	∥	0.55	0.53	1.50	75
	Jo-J4	∥	∥	0.56	0.66	1.97	73
0904	Jo-J1	∥	∥	1.00	0.66	1.80	77
	Jo-J2	∥	∥	0.92	0.55	1.40	75
	Jo-J3	∥	∥	0.99	0.53	1.50	76
	Jo-J4	∥	∥	1.01	0.75	1.84	82
Temperature +70C Degree							
SN (No.)	Freq Status	S11(Max) ≤ 2.2	S22(Max) ≤ 2.2	IL<2.0(dB)			ISO(min)>60(dB)
		20MHz~3.0GHz		20MHz	1.5GHz	3.0GHz	20MHz~3.0GHz
0901	Jo-J1	∥	∥	0.56	0.61	1.75	83
	Jo-J2	∥	∥	0.55	0.53	1.75	78
	Jo-J3	∥	∥	0.56	0.5	1.52	77
	Jo-J4	∥	∥	0.56	0.58	1.77	71
0902	Jo-J1	∥	∥	0.57	0.53	1.59	76
	Jo-J2	∥	∥	0.56	0.52	1.88	77
	Jo-J3	∥	∥	0.56	0.57	1.31	77
	Jo-J4	∥	∥	0.55	0.57	1.89	77
0903	Jo-J1	∥	∥	0.55	0.45	1.53	71
	Jo-J2	∥	∥	0.53	0.47	1.73	75
	Jo-J3	∥	∥	0.55	0.46	1.4	77
	Jo-J4	∥	∥	0.56	0.54	1.71	76
0904	Jo-J1	∥	∥	0.87	0.5	1.65	78
	Jo-J2	∥	∥	0.87	0.42	1.33	77
	Jo-J3	∥	∥	0.89	0.43	1.49	76
	Jo-J4	∥	∥	0.92	0.63	1.75	82