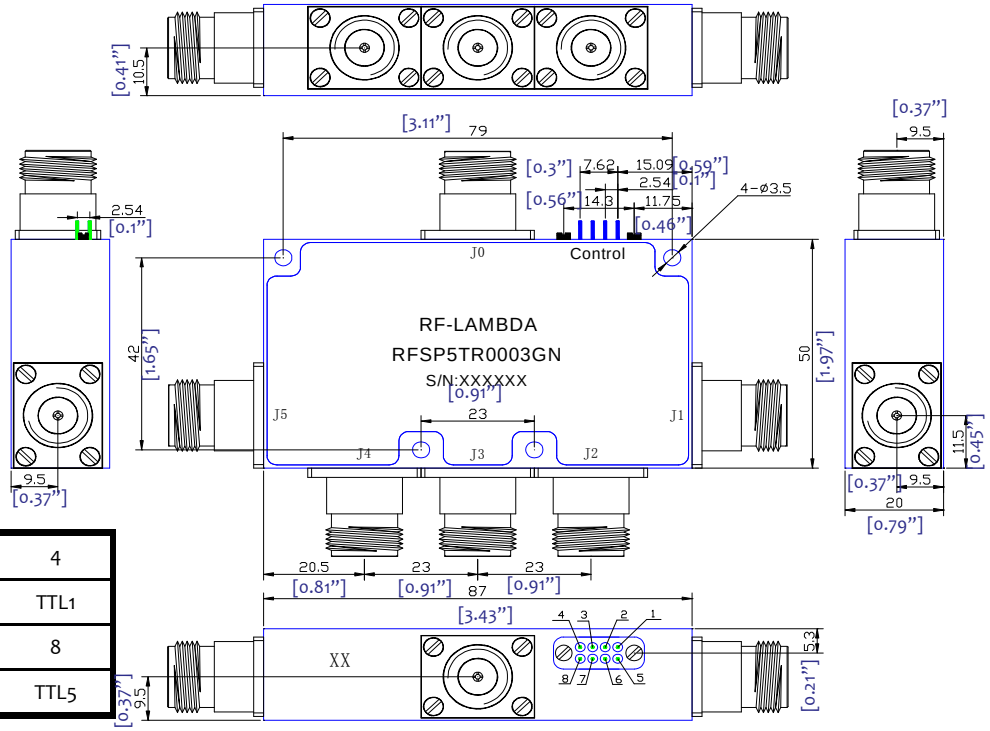
Absorptive and Reflective 0.02-3.0GHz Coaxial SP5T

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

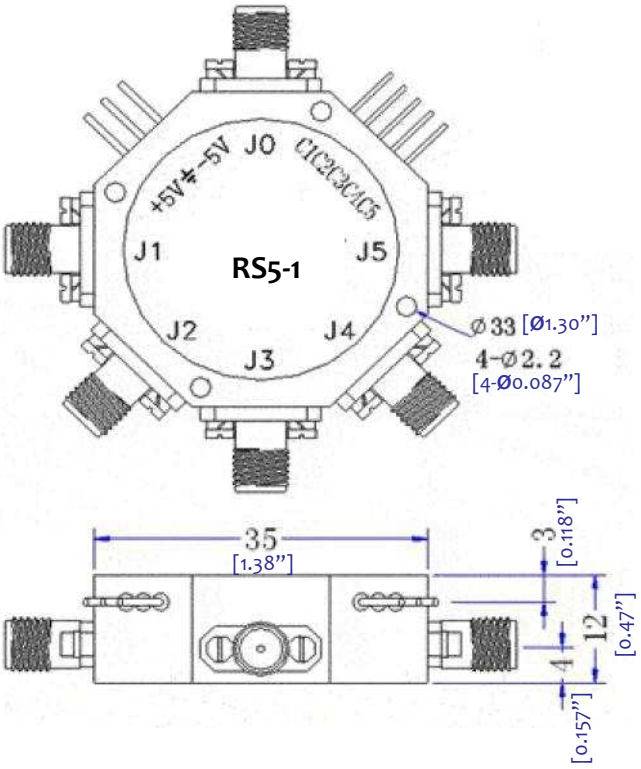
Absorptive SP5T- Single Pole Five Throw						
Part Number	Frequency (GHz)	Insert. Loss (dB)	VSWR (Max:1)	Isolation min (dB)	Power (Watts)	Switching Speed (ns)
RFSP5TA0003G	0.02-3.0	2.2	2.0	70	0.2~1.0	50~100
Reflective SP5T- Single Pole Five Throw						
Part Number	Frequency (GHz)	Insert. Loss (dB)	VSWR (Max:1)	Isolation min (dB)	. Power (Watts)	Switching Speed (ns)
RFSP5TR0003G	0.02-3.0	2.0	2.2	60	1W~50W	100~500

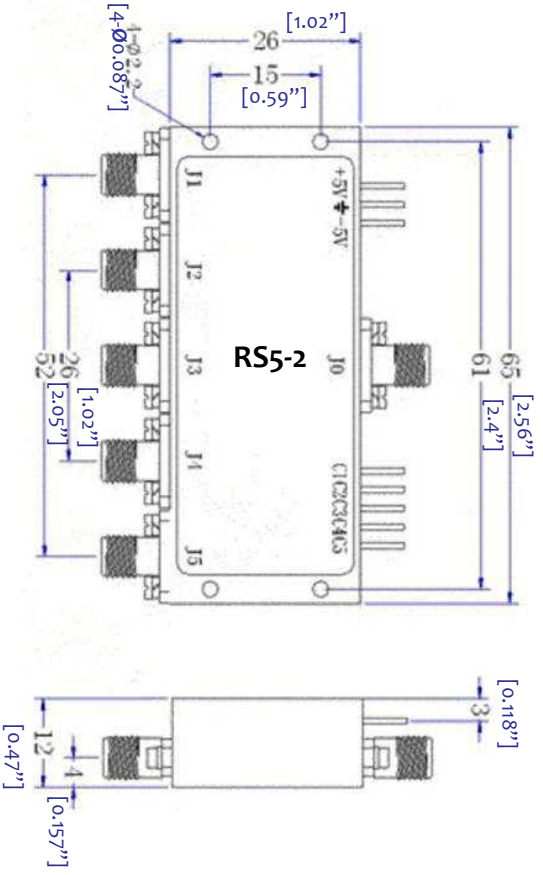
Logic	Status
TTL1~TTL5 : 00001	J0–J1
TTL1~TTL 5 : 00010	J0–J2
TTL1~TTL5 : 00100	J0–J3
TTL1~TTL5 : 01000	J0–J4
TTL1~TTL5 : 10000	J0–J5



PIN	1	2	3	4
	+5V	-12V	GND	TTL1
PIN	5	6	7	8
	TTL2	TTL3	TTL4	TTL5

Absorptive / Reflective Coaxial Single Pole Five Throw Switch 0.02-3.0GHz





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

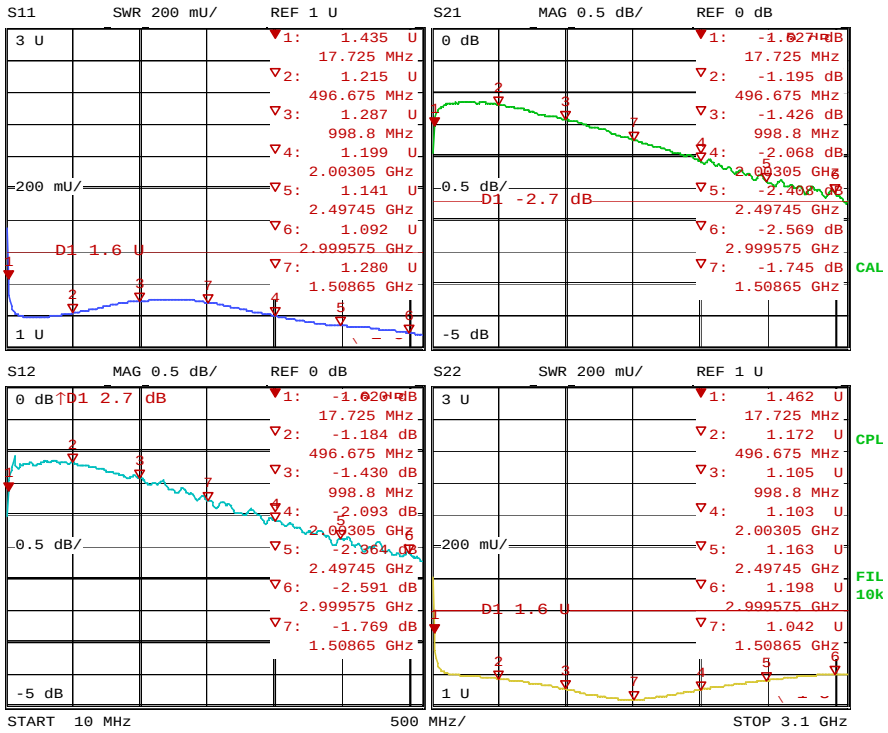
Note: Contact RF-Lambda for faster switching speed, higher power handle, higher isolation

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.

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
01	J0-J1	1.99	1.80	0.42	0.56	1.71	71
	J0-J2	1.80	1.57	0.52	0.61	1.39	73
	J0-J3	1.60	1.43	0.51	0.54	1.44	74
	J0-J4	1.67	1.57	0.53	0.55	1.85	70
	J0-J5	2.05	1.93	0.52	0.66	1.58	72
03	J0-J1	1.96	1.90	0.53	0.65	1.76	71
	J0-J2	1.87	1.80	0.52	0.72	1.30	74
	J0-J3	1.65	1.57	0.46	0.68	1.30	73
	J0-J4	1.83	1.60	0.52	0.71	1.23	73
	J0-J5	2.00	1.80	0.53	0.70	1.70	77
04	J0-J1	2.03	1.86	0.54	0.62	1.70	70
	J0-J2	1.70	1.58	0.53	0.51	1.18	75
	J0-J3	1.64	1.46	0.51	0.52	1.73	74
	J0-J4	1.64	1.53	0.53	0.53	1.37	71
	J0-J5	1.96	1.77	0.53	0.64	1.80	70
05	J0-J1	2.03	1.90	0.83	0.72	1.77	72
	J0-J2	1.57	1.50	0.85	0.55	1.20	75
	J0-J3	1.75	1.42	0.84	0.49	1.54	74
	J0-J4	1.60	1.50	0.84	0.55	1.86	71
	J0-J5	2.06	1.93	0.86	0.81	1.68	71
Temperature -45C 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
01	J0-J1	\\	\\	0.45	0.62	1.71	71
	J0-J2	\\	\\	0.55	0.70	1.38	72
	J0-J3	\\	\\	0.57	0.59	1.43	73
	J0-J4	\\	\\	0.59	0.61	1.86	69
	J0-J5	\\	\\	0.56	0.73	1.54	72
03	J0-J1	\\	\\	0.58	0.75	1.77	71
	J0-J2	\\	\\	0.55	0.77	1.29	72
	J0-J3	\\	\\	0.60	0.76	1.30	70
	J0-J4	\\	\\	0.59	0.77	1.25	71
	J0-J5	\\	\\	0.61	0.77	1.68	76
04	J0-J1	\\	\\	0.62	0.65	1.68	68
	J0-J2	\\	\\	0.61	0.54	1.19	73
	J0-J3	\\	\\	0.60	0.57	1.71	74
	J0-J4	\\	\\	0.57	0.56	1.34	70
	J0-J5	\\	\\	0.58	0.70	1.75	68
05	J0-J1	\\	\\	0.97	0.77	1.73	71
	J0-J2	\\	\\	0.96	0.60	1.19	73
	J0-J3	\\	\\	0.90	0.56	1.50	74
	J0-J4	\\	\\	0.89	0.62	1.81	70
	J0-J5	\\	\\	0.92	0.89	1.66	71
Temperature +75C 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
01	J0-J1	\\	\\	0.50	0.64	1.83	72
	J0-J2	\\	\\	0.61	0.70	1.52	74
	J0-J3	\\	\\	0.60	0.60	1.57	75
	J0-J4	\\	\\	0.62	0.63	1.93	71
	J0-J5	\\	\\	0.62	0.77	1.71	73
03	J0-J1	\\	\\	0.55	0.77	1.70	86
	J0-J2	\\	\\	0.55	0.78	1.39	76
	J0-J3	\\	\\	0.48	0.74	1.26	73
	J0-J4	\\	\\	0.55	0.76	1.25	77
	J0-J5	\\	\\	0.55	0.77	1.61	82
04	J0-J1	\\	\\	0.54	0.62	1.70	72
	J0-J2	\\	\\	0.53	0.51	1.18	77
	J0-J3	\\	\\	0.51	0.52	1.73	74
	J0-J4	\\	\\	0.53	0.53	1.37	70
	J0-J5	\\	\\	0.53	0.64	1.80	71
05	J0-J1	\\	\\	0.88	0.85	1.75	87
	J0-J2	\\	\\	0.89	0.66	1.35	73
	J0-J3	\\	\\	0.88	0.62	1.65	73
	J0-J4	\\	\\	0.87	0.63	1.85	77
	J0-J5	\\	\\	0.91	0.89	1.67	84



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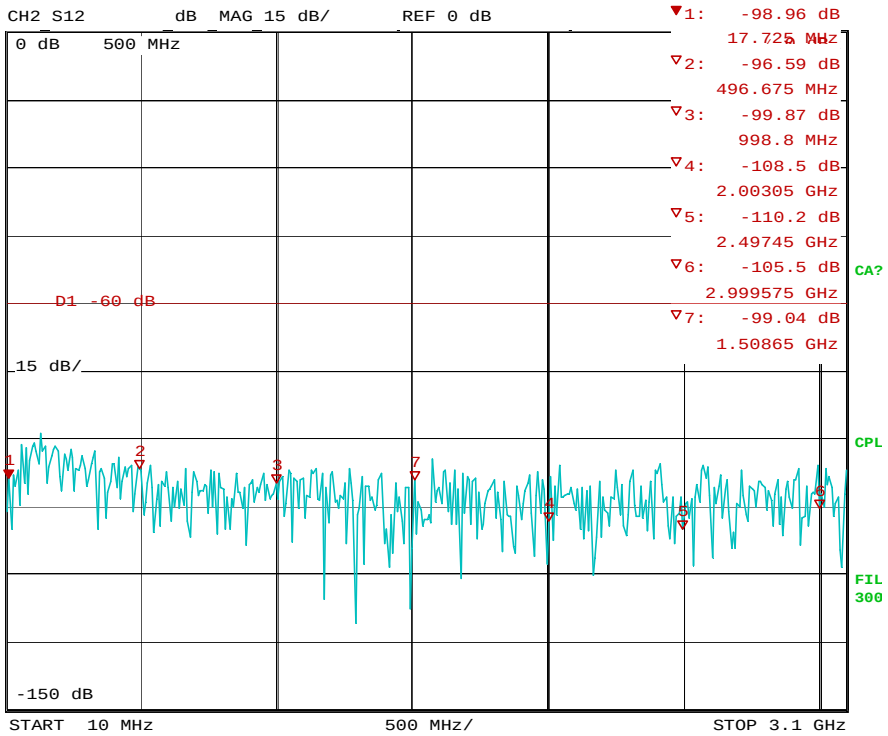

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Absorptive / Reflective Coaxial Single Pole Five Throw Switch 0.02-3.0GHz