



DP3T and SPDT Terminated



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DP3T PART NUMBER SELECTION GUIDE*

Digital I	Position	R 1-3:	4:	RF	cor	nne	cto	rs		5: Type		6	: Vo	lta	ge	7: S	witch M	odel		8:	Optio	ns		9:Terr	minals	10:Do	cumer	ntation
Series	Configuration		SMA3 GHz	9	$\frac{\sim}{\infty}$	20	5.5 G	SMA 2.9 40 GHz	Failsafe	Latching	Normally open	12V	15V	24V	28V	DP3T	SPDT Terminated	Terminated 4 ports Bypass	Without option	Positive common	Supression diodes	Positive common and suppression diodes	TTL driver	Solder pins	D-Sub connector	Certificate of conformity	Calibration certificate	Calibration certificate + RF curves
RAMSES	DP3T	R585	3	-	4	-	F	8	1/2	3/4/5/6	7/8	2	-	-	3	0/1	2/3/4/5	6/7	0	1	3	4	NB	0	-	-	-	-
PLATINUM	DP3T	R595	-	3	-	4	F	8	-	3/4/5/6	-	-	7	3	-	4	2	3	1	-	-	-	2	0	5	-	С	R

Note: TTL driver is already included for the 1, 3, 5 and 7 switch models of the RAMSES R585 series. Example of P/N: R585832000 is a DP3T SMA2.9 40 GHz, latching, 12 Vdc, without option, solder pins.



^{*}For part number creation and available options, see detailed part number selection for each series.

SMA - SMA 2.9



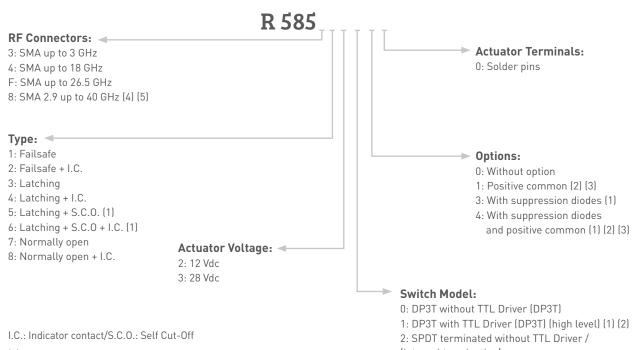
Radiall's RAMSES DP3T and Terminated SPDT switches offer excellent reliability, high performance and operating frequencies from DC to 40 GHz. A full range of options are available within the RAMSES range in order to offer customers a complete solution.

These relays are dedicated to market applications including: defense, instrumentation and telecommunication.

Example of P/N:

R585423300 is a SPDT terminated SMA 18GHz, failsafe, 28Vdc, indicator contacts, internal terminations without TTL drivers and solder pins.

PART NUMBER SELECTION



- (1): Suppression diodes are already included in Self Cut-OFF & TTL option
- (2): Polarity is not relevant to application for switches with TTL driver
- (3): Positive common shall be specified only with type 3, 4, 5, 6, 7 & 8 because failsafe switches can be used with both polarities
- (4): Not available with switch model "2" & "3"

Go online for data sheets & assembly instructions.

(5): Connector SMA 2.9 is equivalent to "K connector®", registered trademark of Anritsu

- (internal termination)
- 3: SPDT terminated with TTL Driver
- (high level) (1) (2) / (internal termination)
- 4: SPDT terminated without TTL Driver /
- (external termination)
- 5: SPDT terminated with TTL Driver / (high level)
- (1) (2) / (external termination)
- 6: Terminated 4 ports bypass no option
- (external terminations)
- 7: Terminated 4 ports bypass with TTl Driver (external termination)



SMA - SMA 2.9

GENERAL SPECIFICATIONS

Operating mode		Fails	safe	Latc	hing	Normally open				
Nominal operating voltage	Vdc	12	28	12	28	12	28			
(across operating temperature)	Vuc	(10.2 to 13)	(24 to 30)	(10.2 to 13)	(24 to 32)	(10.2 to 13)	(24 to 32)			
Coil resistance (+/-10%)	Ω	24	138	29	175	47.5	275			
Nominal operating current at 23°C	mA	500	205	420	160	250	102			
Average power				See Power Ratin	g Chart page 1-1	3				
Average power		Intern	al terminations:	1 Watt CW into 5	0 Ohms					
		2.2 to 5.5 Volts 800µA max 5.5 Volts								
I I L Input	TTL input			0 to 0.8 Volts 20μA max 5.5 Volts						
Switching time (Max)	10									
Life (Min)		2 million cycles for products with internal terminations 10 million cycles for all other products								
Connectors		SMA - SMA 2.9								
Actuator terminals		Solder pins								
Operating temperature range	-40°C to +85°C									
Storage temperature range	-55°C to +85°C									
Vibration (MIL STD 202, Method 204D, o	cond.D)	10-2000 Hz, 20g Operating								
Shock (MIL STD 202, Method 213B, con	100g / 11 ms, ½ sine Operating									

RF PERFORMANCES

Connectors	Frequen	cy range GHz	V.S.W.R. (max)	Insertion loss (max) dB	Isolation (min) dB	Impedance Ω
		DC - 3	1.20	0.20	80	
	DC - 3	3 - 8	1.30	0.30	70	
SMA	DC - 18	8 - 12.4	1.40	0.40	60	50
	DC - 26.5	12.4 - 18	1.50	0.50	60	
		18 - 26.5	1.70	0.70	55	
		DC - 6	1.30	0.30	70	
		6 - 12.4	1.40	0.40	60	
SMA 2.9	SMA 2.9 DC - 40	12.4 - 18	1.50	0.50	60	50
		18 - 26.5	1.70	0.70	55	
		26.5 - 40	1.90	0.80	50	

See page 3-4 for typical RF performances

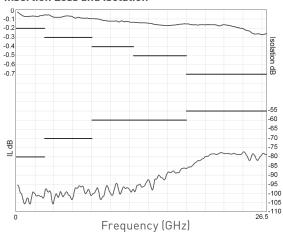


SMA - SMA 2.9

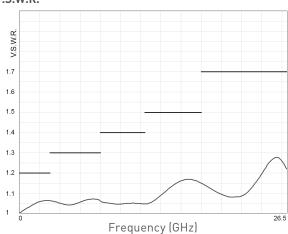
R585 TYPICAL RF PERFORMANCES

Example: DP3T SMA up to 26.5 GHz

Insertion Loss and Isolation

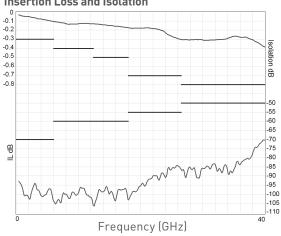


V.S.W.R.

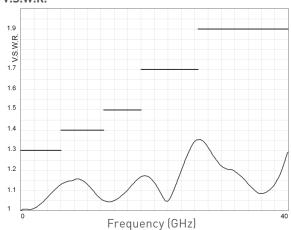


Example: DP3T SMA2.9 up to 40 GHz

Insertion Loss and Isolation

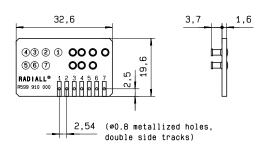


V.S.W.R.



ACCESSORIES

A printed circuit board interface connector (ordered separately) has been designed for easy mounting on terminals. For DP3T model R585 series => Radiall part number: **R599910000**

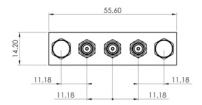


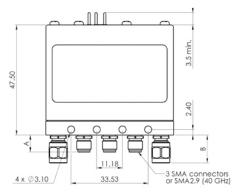




SMA - SMA 2.9

TYPICAL OUTLINE DRAWING

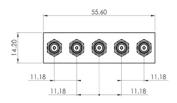


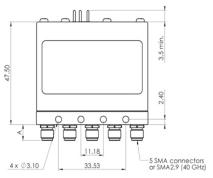


SPDT with external terminations

R585 --- 4--

R585 --- 5--





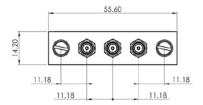
DP3T

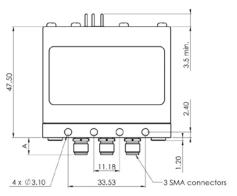
R585 --- 0--

R585 --- 1--

See page 3-11 for pin indentification

Connectors	A max (mm)	B max (mm) if applicable
SMA up to 18 GHz	7.4	13.5
SMA up to 26.5 GHz	7.4	21
SMA 2.9 up to 40 GHz	6.3	21

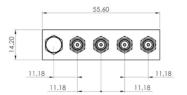


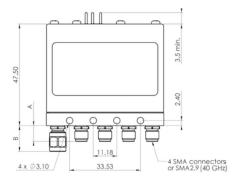


SPDT with internal terminations

R585 --- 2--

R585 --- 3--





Terminated 4 ports BYPASS relay

R585 --- 6--

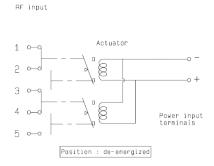
R585 --- 7--



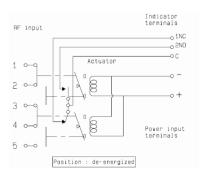
R585 Series

FAILSAFE

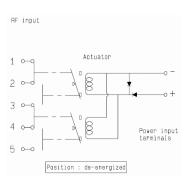
WITHOUT OPTION R585 -1- 000 / R585 -1- 000 / R585 -1- 400



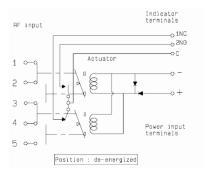
WITH INDICATOR CONTACT R585 -2- 000 / R585 -2- 200 / R585 -2- 400



WITH SUPPRESSION DIODES R585 -1- 030 / R585 -1- 230 / R585 -1- 430



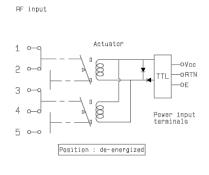
WITH SUPPRESSION DIODES AND INDICATOR CONTACT R585 -2- 030 / R585 -2- 230 / R585 -2- 430



WITH TTL DRIVER

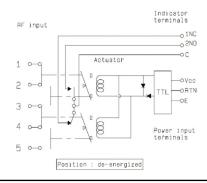
(supression diodes are included)

R585 -1- 000 / R585 -1- 300 / R585 -1- 500



WITH TTL DRIVER AND INDICATOR CONTACT (supression diodes are included)

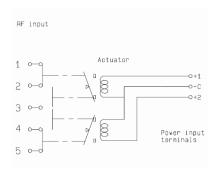
R585 -2- 000 / R585 -2- 300 / R585 -2- 500



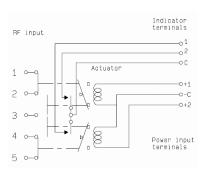
R585 Series

NORMALLY OPEN

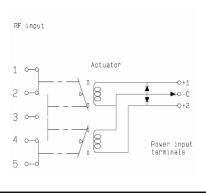
WITHOUT OPTION R585 -7- 000 / R585 -7- 200 / R585 -7- 400



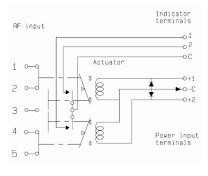
WITH INDICATOR CONTACT R585 -8- 000 / R585 -8- 200 / R585 -8- 400



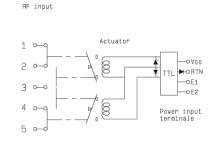
WITH SUPPRESSION DIODES R585 -7- 030 / R585 -7- 230 / R585 -7- 430



WITH SUPPRESSION DIODES AND INDICATOR CONTACT R585 -8-030 / R585 -8-230 / R585 -8-430

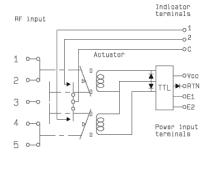


WITH TTL DRIVER (supression diodes are included) R585 -7- 000 / R585 -7- 300 / R585 -7- 500



WITH TTL DRIVER AND INDICATOR CONTACT (supression diodes are included)

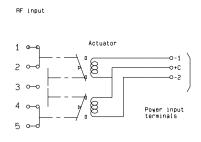
R585 -8- 100 / R585 -8- 300 / R585 -8- 500



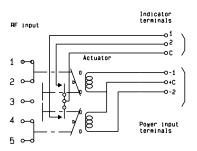
R585 Series

NORMALLY OPEN

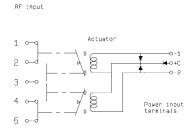
WITH POSITIVE COMMON, NO OPTION R585 -7- 010 / R585 -7- 210 / R585 -7- 410



WITH POSITIVE COMMON AND INDICATOR CONTACT R585 -8- 010 / R585 -8- 210 / R585 - 8 - 410

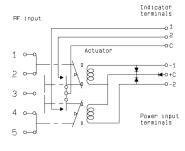


WITH POSITIVE COMMON AND SUPPRESSION DIODES R585 -7- 040 / R585 -7- 240 / R585 -7- 440



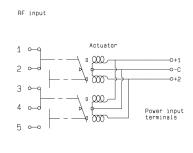
WITH POSITIVE COMMON, INDICATOR CONTACT AND SUPPRESSION DIODES

R585 -8- 040 / R585 -8- 240 / R585 -8- 44 0



WITHOUT OPTION

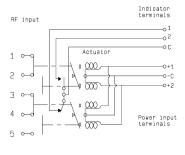
R585 -3- 000 / R585 -3- 200 / R585 -3- 400



Go online for data sheets & assembly instructions.

WITH INDICATOR CONTACT

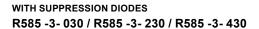
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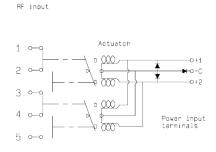




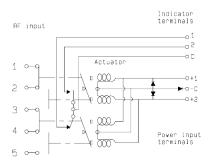
R585 Series

LATCHING





WITH SUPPRESSION DIODES AND INDICATOR CONTACT R585 -4- 030 / R585 -4- 230 / R585 -4- 430



WITH TTL DRIVER

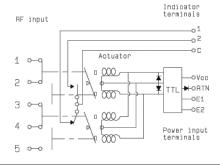
(suppression diodes are included)

RF input

R585 -3- 100 / R585 -3- 300 / R585 -3- 500

WITH TTL DRIVER AND INDICATOR CONTACT (suppression diodes are included)

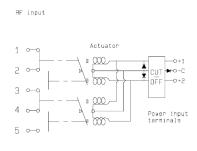
R585 -4- 100 / R585 -4- 300 / R585 -4- 500



WITH CUT-OFF

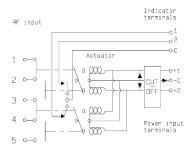
(supression diodes are included)

R585 -5- 000 / R585 -5- 200 / R585 -5- 400



WITH CUT-OFF AND INDICATOR CONTACT (supression diodes are included)

R585 -6- 000 / R585 -6- 200 / R585 -6- 400



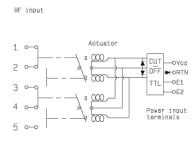


R585 Series

LATCHING

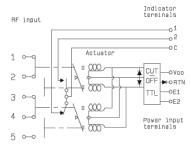
WITH CUT-OFF AND TTL DRIVER (suppression diodes are included)

R585 -5- 100 / R585 -5- 300 / R585 -5- 500

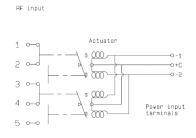


WITH CUT-OFF, TTL DRIVER AND INDICATOR CONTACT (suppression diodes are included)

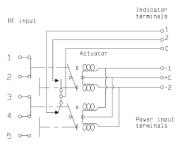
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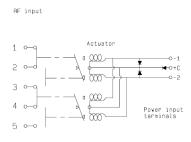
WITH POSITIVE COMMON, NO OPTION R585 -3- 010 / R585 -3- 210 / R585 -3- 410



WITH POSITIVE COMMON AND INDICATOR CONTACT R585 -4- 010 / R585 -4- 210 / R585 -4- 410



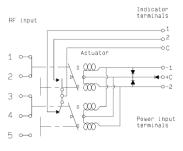
WITH POSITIVE COMMON AND SUPPRESSION DIODES R585 -3- 040 / R585 -3- 240 / R585 -3- 440



Go online for data sheets & assembly instructions.

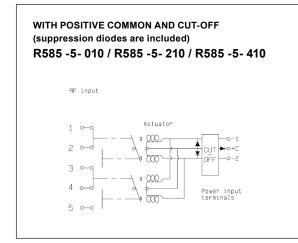
WITH POSITIVE COMMON, SUPPRESSION DIODES AND INDICATOR CONTACT

R585 -4- 040 / R585 -4- 240 / R585 -4- 440

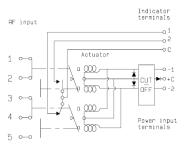


R585 Series

LATCHING



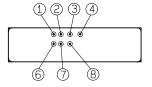
WITH POSITIVE COMMON, CUT-OFF AND INDICATOR CONTACT (suppression diodes are included) R585 -6- 010 / R585 -6- 210 / R585 -6- 410



PIN IDENTIFICATION

T	PIN									
Type	1	2	3	4	6	7	8			
Failsafe	+		_							
Failsafe + I.C.	+		-		2N0	1NC	С			
Failsafe + TTL	Е		RTN	VCC						
Failsafe + I.C. + TTL	Е		RTN	VCC	2N0	1NC	С			
Latching Latching + Cut-off	-2 or +2	-1 or +1	+C or -C							
Latching + I.C. Latching + I.C. + Cut-off	-2 or +2	-1 or +1	+C or -C		2	1	С			
Latching + TTL Latching + TTL + Cut-off	E2	E1	RTN	VCC						
Latching + TTL + I.C. Latching + TTL + I.C. Cut-off	E2	E1	RTN	VCC	2	1	С			
Normally open	-2 or +2	-1 or +1	+C or -C							
Normally open + I.C.	-2 or +2	-1 or +1	+C or -C		2	1	С			
Normally open + TTL	E2	E1	RTN	VCC						
Normally open + TTL + I.C.	E2	E1	RTN	VCC	2	1	С			

BOTTOM VIEW





SMA - SMA 2.9

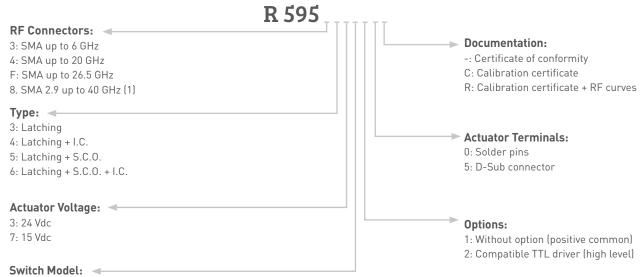


Radiall's PLATINUM series switches are optimized to perform at a high level over an extended life cycle. With outstanding RF performance, and a guaranteed insertion loss repeatability of 0.03 dB over a life span of 10 million switching cycles. PLATINUM series switches are perfect for automated test and measurement equipment, as well as signal monitoring devices.

Example of P/N:

R595F63215 is a Terminated SPDT SMA 26.5 GHz, latching with Self Cut-Off, 24Vdc, Indicators, D-Sub connector.

PART NUMBER SELECTION



- 2: Terminated SPDT switch
- 3: Terminated 4 ports bypass switch
- 4: Non terminated 5 ports DP3T switch
- I.C.: Indicator contact/S.C.O.: Self Cut-Off
- (1): Connector SMA2.9 is equivalent to "K connector®", registered trademark of Anritsu



SMA - SMA 2.9

GENERAL SPECIFICATIONS

Operating mode		Latching					
Nominal operating voltage (across operating temperature)	Vdc	24 (20 to 32)	15 (12 to 20)				
Coil resistance (+/-10%)	Ω	175	60				
Nominal operating current at 23°C	mA	140	250				
Average power		RF path Cold switching: see Power Chart on page 3-21 Hot switching: 1 Watt CW					
		Internal terminations	1 Watt average into 50 Ω				
		External terminations	0.5 Watt average into 50 Ω				
	High Level	3 to 7 V: 800 μA max at 7 V					
TTL input	Low Level	0 to 0.8 V: 20 μA max at 0.8V					
Switching time (Max)	ms		15				
117 (117)	SMA	10 million cycles					
Life (Min)	SMA2.9	5 million cycles					
Connectors		S	SMA - SMA2.9				
Actuator terminals		D-Sub 9 pin female					
Actuator terminats			Solder pins				
Weight	g		<100				

ENVIRONMENTAL SPECIFICATIONS

Operating temperature range	-25°C to +75°C				
Storage temperature range	-55°C to +85°C				
Temperature cycling (MIL STD 202F, Method 107D, Cond.A)	-55°C to +85°C (10 cycles)				
Sine vibration operating (MIL STD 202, Method 204D, Cond.D)	10-2000 Hz, 20g				
Random vibration operating	16.91G (rms) 50-2000 Hz 3min/axis				
Shock operating (MIL STD 202, Method 213B, Cond.G)	50g / 11ms, sawtooth				
Humidity operating	15 to 95% relative humidity				
Humidity storage (MIL STD 202, Method 106E, Cond.E)	65°C, 95% RH, 10 days				
Altitude operating	15,000 feet (4,600 meters)				
Altitude storage (MIL STD 202, Method 105C, Cond.B)	50,000 feet (15,240 meters)				

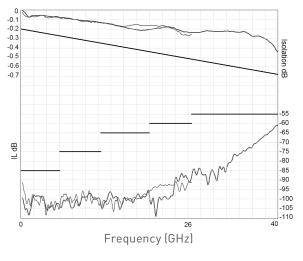


SMA - SMA 2.9

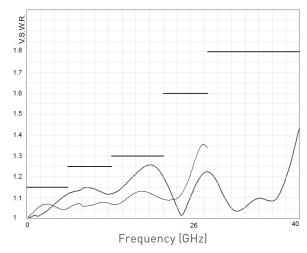
RF PERFORMANCES

Part Numb	er	R5953	R5954	R5954			R5958	
Frequency Range	GHz	DC to 6	DC to 6 DC to 20 DC to 26.5				DC to 40	
Impedance	Ω			5	50			
Insertion Loss (max)	dB		0.20 + (0	.45 / 26.5)	x frequency (GHz)			
Isolation (M	in)	85	DC to 6 GHz 6 to 12.4 GHz 12.4 to 20 GHz	85 75 65	DC to 6 GHz 6 to 12.4 GHz 12.4 to 20 GHz 20 to 26.5 GHz	85 75 65 60w	DC to 6 GHz 6 to 12.4 GHz 12.4 to 20 GHz 20 to 26.5 GHz 26.5 to 40 GHz	85 75 65 60 55
V.S.W.R. (M	ax)	1.15	DC to 6 GHz 6 to 12.4 GHz 12.4 to 18 GHz 18 to 20 GHz	1.15 1.25 1.30 1.60	DC to 6 GHz 6 to 12.4 GHz 12.4 to 18 GHz 18 to 26.5 GHz	1.15 1.25 1.30 1.60	DC to 6 GHz 6 to 12.4 GHz 12.4 to 18 GHz 18 to 26.5 GHz 26.5 to 40 GHz	1.15 1.25 1.30 1.60 1.80
Repeatabili (Up to 10 million cycles me	,		0.03 dB maxir	num			0.05 dB maxir	num

Insertion Loss and Isolation



V.S.W.R.



SMA — SMA 2.9

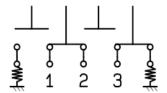
SMA - SMA 2.9

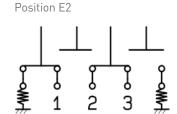
SWITCH MODEL: TERMINATED SPDT SWITCH

The terminated SPDT switch is a single pole double throw switch where unused ports are terminated into 50 ohms. This switch is considered a "break before make".

RF SCHEMATIC DIAGRAM

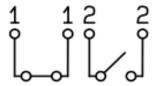
Position E1





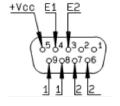
POSITION INDICATORS

State 11



Standard drive option "1" (Positive common):

- Connect pin +Vcc to supply (+20 Vdc to +32 Vdc)
- Select desired RF path by applying ground to the corresponding "close" pin (Ex: ground pin E1 to switch to position E1. RF path 1-2 closed and RF path 2-3 open)
- To open desired path and close the new RF path, connect ground to the corresponding "close" pin (Ex: ground pin E2 to open RF path 1-2 and close RF path 2-3)

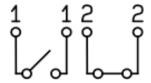


+Vcc E1 E2 |

D-sub Connector

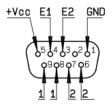
Solder Pins

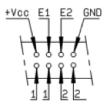
State 22



TTL drive option "2"

- · Connect pin GND to ground
- Connect pin +Vcc to supply (+20 Vdc to +32 Vdc)
- Select (close) desired RF path by applying TTL
 "High" to the corresponding "drive" pin. (Ex: apply
 TTL "High" to pin E1 to switch to position E1. RF
 path 1-2 closed and RF path 2-3 open)
- To open desired path and close the new RF path, apply TTL "High" to the "drive" pin which corresponds to the desired RF path. (Ex: apply TTL "High" to pin E2 to open RF path 1-2 and close RF path 2-3)





D-sub Connector

Solder Pins

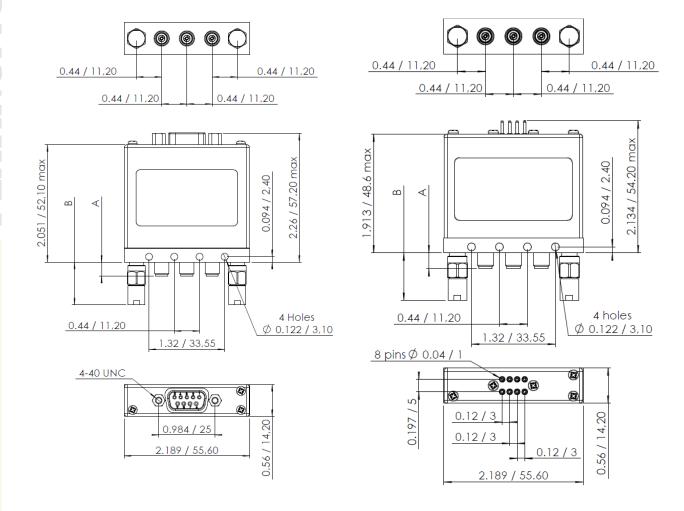


SMA - SMA 2.9

SWITCH MODEL: TERMINATED SPDT SWITCH

With D-Sub connector

With solder pins



All dimensions are in inches/millimeters

Connectors	A max (inches / mm)	B max (inches / mm)	Terminations
SMA up to 26.5 GHz	0.291 / 7.40	0.067 / 1.70	Internal
SMA 2.9 up to 40 GHz	0.248 / 6.30	0.748 / 19.0	External



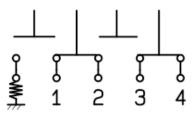
SMA - SMA 2.9

SWITCH MODEL: TERMINATED 4 PORT SWITCH

The terminated 4 port bypass switch can terminate into the 50 ohms device under test. This switch is considered a "break before make".

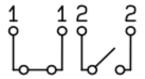
RF SCHEMATIC DIAGRAM

Position E1



POSITION INDICATORS

State 11



Standard drive option "1" (Positive common):

- Connect pin +Vcc to supply (+20 Vdc to +32 Vdc)
- Select desired RF path by applying ground to the corresponding "close" pin (Ex: ground pin E1 to switch to position E1. RF path 1-2 and RF path 3-4 closed and RF path 2-3 open)
- To open desired path and close the new RF path, connect ground to the corresponding "close" pin (Ex: ground pin E2 to open RF path 1-2 and 3-4 and close RF path 2-3)

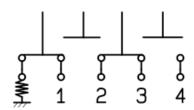


1 1 2 2

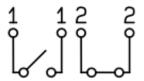
D-Sub connector

Solder pins

Position E2



State 22



TTL drive option "2":

- Connect pin GND to ground
- Connect pin +Vcc to supply (+20 Vdc to +32 Vdc)
- Select (close) desired RF path by applying TTL "High" to the corresponding "drive" pin (Ex: apply TTL "High" to pin E1 to switch to position E1. RF path 1-2 and 3-4 closed and RF path 2-3 open)
- To open desired path and close the new RF path, apply TTL "High" to the "drive" pin which corresponds to the desired RF path (Ex: apply TTL "High" to pin E2 to open RF path 1-2 and 3-4 and close RF path 2-3)





D-Sub connector

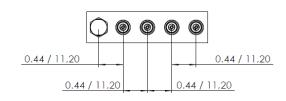
Solder pins

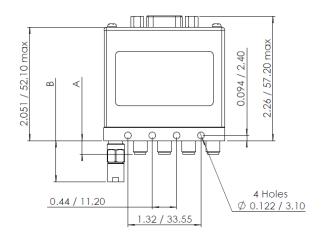


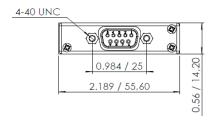
SMA - SMA 2.9

SWITCH MODEL: TERMINATED 4 PORT BYPASS SWITCH

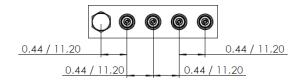
With D-Sub connector

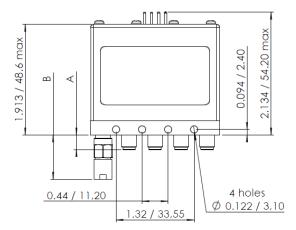


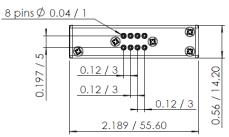




With solder pins







All dimensions are in inches/millimeters

Connectors	A max (inches / mm)	B max (inches / mm)	Terminations		
SMA up to 26.5 GHz	0.291 / 7.40	0.067 / 1.70	Internal		
SMA 2.9 up to 40 GHz	0.248 / 6.30	0.748 / 19.0	External		



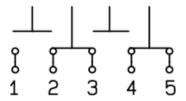
SMA - SMA 2.9

SWITCH MODEL: 5 PORT DP3T SWITCH

The non terminated 5 port DP3T switch can be used as SPDT with high power terminations, as a bypass switch. In this application, the fifth port can be terminated externally with a high power termination. These switches are considered a "break before make".

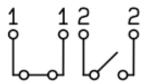
RF SCHEMATIC DIAGRAM

Position E1



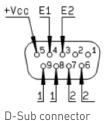
POSITION INDICATORS

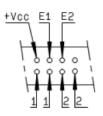
State 11



Standard drive option "1" (Positive common):

- Connect pin +Vcc to supply (+20 Vdc to +32 Vdc)
- Select desired RF path by applying ground to the corresponding "close" pin (Ex: ground pin E1 to switch to position E1. RF path 2-3 and RF path 4-5 closed and RF path 1-2 and RF path 3-4 open)
- To open desired path and close the new RF path, connect ground to the corresponding "close" pin (Ex: ground pin E2 to open RF path 2-3 and 4-5 and close RF path 1-2 and 3-4)

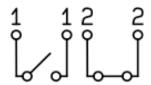




Solder pins

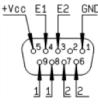
Position E2

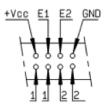




TTL drive option "2":

- · Connect pin GND to ground
- Connect pin +Vcc to supply (+20 Vdc to +32 Vdc)
- Select (close) desired RF path by applying TTL "High" to the corresponding "drive" pin (Ex: apply TTL "High" to pin E1 to switch to position E1. RF path 2-3 and RF path 4-5 closed and RF path 1-2 and 3-4 open)
- To open desired path and close the new RF path, apply TTL "High" to the "drive" pin which corresponds to the desired RF path. (Ex: apply TTL "High" to pin E2 to open RF path 2-3 and 4-5 and close RF path 1-2 and 3-4)





D-Sub connector

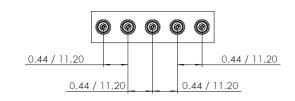
Solder pins

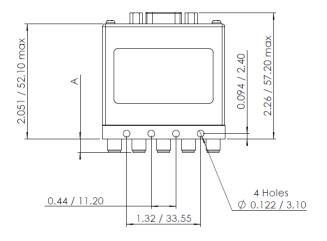


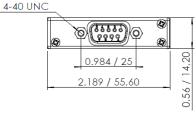
SMA - SMA 2.9

SWITCH MODEL: 5 PORT DP3T SWITCH

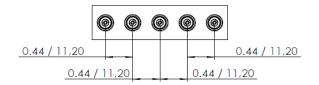
With D-Sub connector

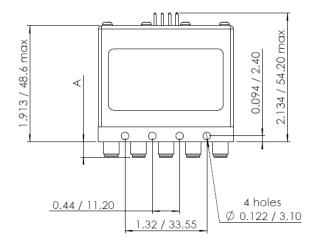


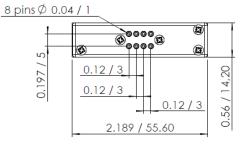




With solder pins







All dimensions are in inches/millimeters

Connectors	A max (inches / mm)
SMA up to 26.5 GHz	0.291 / 7.40
SMA 2.9 up to 40 GHz	0.248 / 6.30

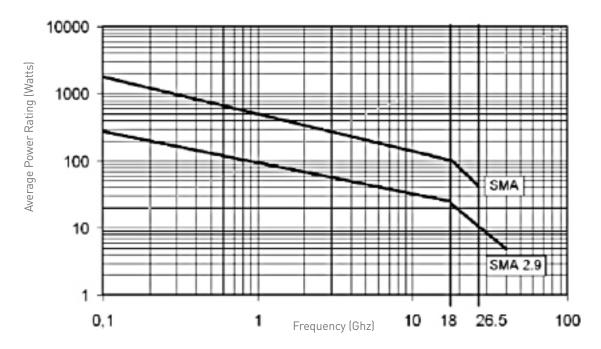


SMA - SMA 2.9

POWER RATING CHART

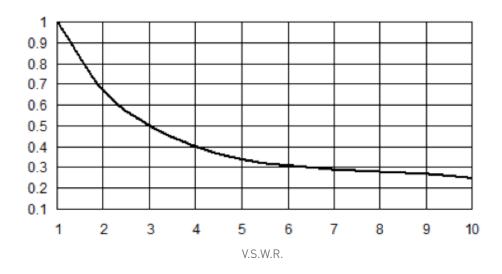
This graph is based on the following conditions:

- Ambient temperature: + 25°C
- Sea level
- V.S.W.R.: 1 and cold switching



DERATING FACTOR VERSUS V.S.W.R.

The average power input must be reduced for load V.S.W.R. above 1.1





Optional features for DP3T switches

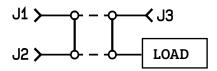
GENERAL

RADIALL DP3T / SPDT terminated are designed only with SMA connectors.



For all other connectors (N, BNC etc..), the same function as SPDT terminated can be easily performed with a standard DPDT and an external load.





POS 1 : J1 to J2 / J3 to load

Examples of dedicated applications



This SPDT terminated switch is composed of a DP3T with SMA connectors, and cable load for medium power terminations. The Key advantage of this solution is the ability to mount the switch with external terminations at the desired power level.



This is an example of an SPDT terminated switch that was designed with 2 seperate coils for a specific test network application.

