DP3T SECTION

SECTION 3

Pages

RAMSES series
DP3T and Terminated SPDT up to 40 GHz: **R585 Series** ..... 3-2 to 3-5

Electrical Schematics
R585 Series ..... 3-6 to 3-11

PLATINUM Series
High performances DP3T & Terminated SPDT up to 26.5 GHz: **R595 Series** ..... 3-12 to 3-21

OPTIONAL FEATURES 3-22

DP3T PRODUCTS SELECTION GUIDE

Quick access to the right page:

	Frequency				
Connector	DC - 3	DC - 6	DC - 18	DC - 26.5	DC - 40
SMA				3-2 / 3-12	
SMA2.9					3-2

For more detailed technical information please consult Radiall customer support.

DP3T and Terminated SPDT up to 40 GHz
SMA - SMA2.9

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 with RADIALL RAMSES concept to offer customers complete solutions.

These relays are dedicated to market applications including: Defense Instrumentation and Telecommunications.

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

R 585 . . . . . .

RF Connectors:
3: SMA up to 3 GHz
4: SMA up to 18 GHz
F: SMA up to 26.5 GHz
8: SMA2.9 up to 40 GHz (4) (5)

Type:
1: Failsafe
2: Failsafe + I.C.
3: Latching
4: Latching + I.C.
5: Latching + S.C.O. (1)
6: Latching + S.C.O + I.C. (1)
7: Normally open
8: Normally open + I.C.

Actuator Voltage:
2: 12 Vdc
3: 28 Vdc

Switch Model:
0: DP3T without TTL Driver (DP3T)
1: DP3T with TTL Driver (DP3T) (high level) (1) (2)
2: SPDT terminated without TTL Driver / (internal termination)
3: SPDT terminated without 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 (external termination)

Options:
0: Without option
1: Positive common (2) (3)
3: With suppression diodes (1)
4: With suppression diodes and positive common (2) (3)

Actuator Terminals:
0: Solder pins

I.C.: Indicator contact - S.C.O.: Self Cut-Off
(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"

(5): Connector SMA2.9 is equivalent to "K connector©", registered trademark of Anritsu.

To download technical data sheets, visit www.radiall.com & enter the part number in the Search box.
For more detailed technical information please consult Radiall customer support.

DP3T and Terminated SPDT up to 40 GHz
SMA - SMA2.9

GENERAL SPECIFICATIONS

Operating mode			Failsafe		Latching		Normally open	
Nominal operating voltage (across operating temperature)		Vdc	12 (10.2 to 13)	28 (24 to 30)	12 (10.2 to 13)	28 (24 to 30)	12 (10.2 to 13)	28 (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			RF path: see power rating chart **page 1-16** Internal terminations: 1 Watt CW into 50 Ohms					
TTL Input	High level		2.5 to 5.5 Volts			800µA max 5.5 Volts		
	Low level		0 to 0.8 Volts			20µA max 0.8 Volts		
Switching time (max)		ms	10					
Life (min)			2 million cycles for products with internal terminations and 40 GHz models 10 million cycles for all other products					
Connectors			SMA - SMA2.9					
Actuator terminals			Solder pins					
Operating temperature range		SMA SMA2.9	-40°C, +85°C					
Storage temperature range		SMA SMA2.9	-55°C, +85°C					
Vibration (MIL STD 202, Method 204D, cond.D)			10-2000 Hz, 20g			Operating		
Shock (MIL STD 202, Method 213B, cond.C)			100g / 6ms, ½ sine			Operating		

RF PERFORMANCES

Connectors	Frequency Range GHz		V.S.W.R. (max)	Insertion Loss (max) dB	Isolation (min) dB	Impedance Ohms
SMA	DC - 3 DC - 18 DC - 26.5	DC - 3	1.20	0.20	80	50
		3 - 8	1.30	0.30	70	
		8 - 12.4	1.40	0.40	60	
		12.4 - 18	1.50	0.50	60	
		18 - 26.5	1.80	0.70	50	
SMA2.9	DC - 40	DC - 6	1.30	0.30	70	50
		6 - 12.4	1.40	0.40	60	
		12.4 - 18	1.50	0.50	60	
		18 - 26.5	1.70	0.70	55	
		26.5 - 40	1.90	0.80	50	

See page 3-4 for typical RF performances

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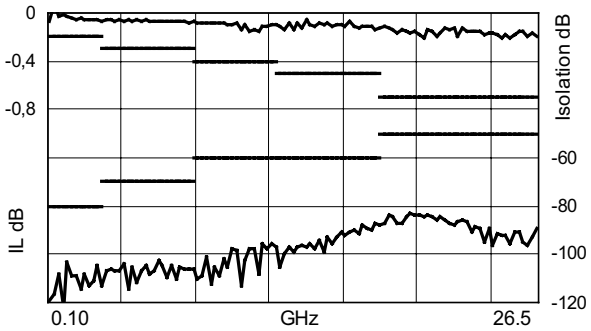
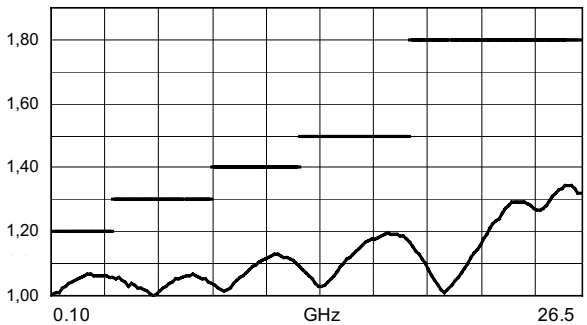
R585 TYPICAL RF PERFORMANCES

Example: DP3T SMA up to 26.5 GHz

Insertion Loss and Isolation

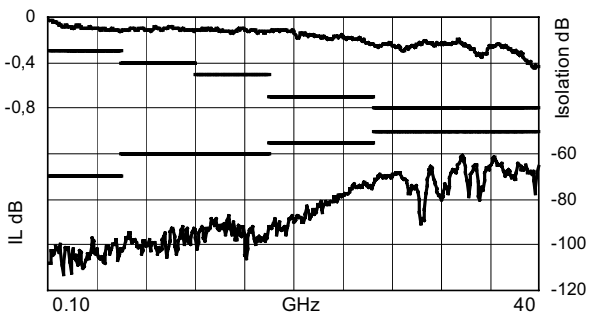


V.S.W.R.

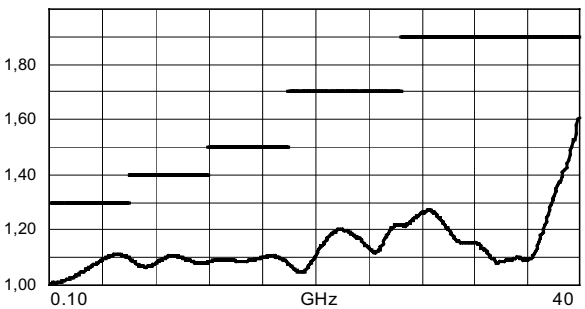


Example: DP3T SMA2.9 up to 40 GHz

Insertion Loss and Isolation



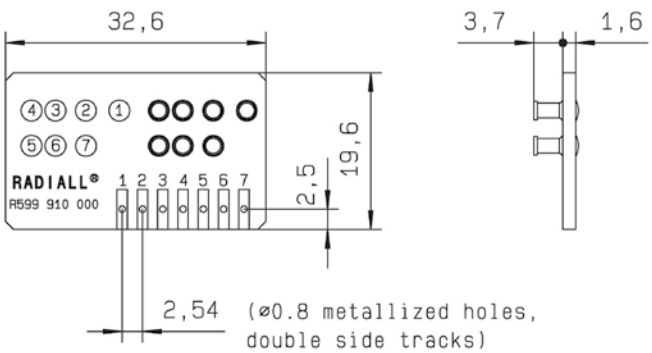
V.S.W.R.



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**



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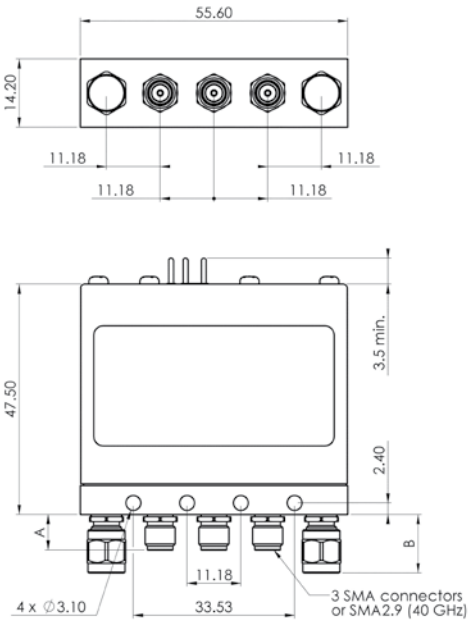
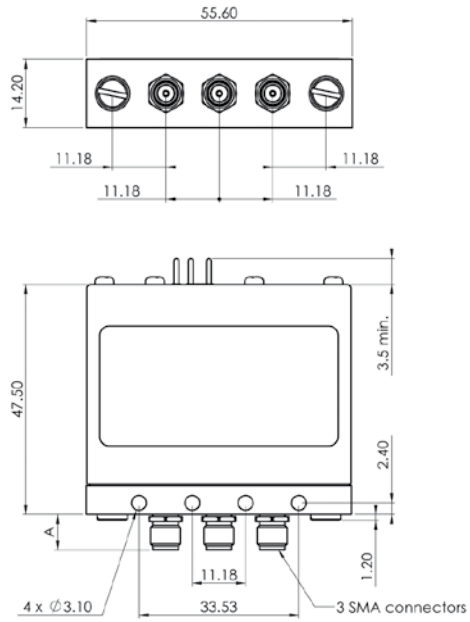
www.radiall.com

DP3T and Terminated SPDT up to 40 GHz
SMA - SMA2.9

TYPICAL OUTLINE DRAWING

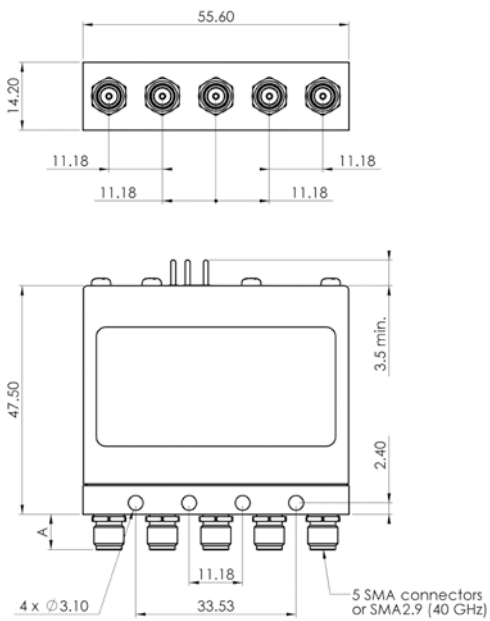


SPDT with **external** terminations
R585 --- 4--
R585 --- 5--

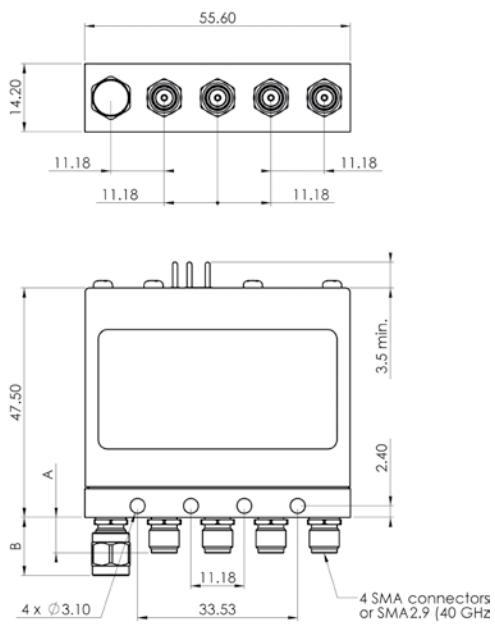


SPDT with **internal** terminations
R585 --- 2--
R585 --- 3--

See page 3-11 for pin indentification



DP3T
R585---0--
R585---1--



Terminated 4 ports **BYPASS** relay
R585 --- 6--
R585 --- 7--

Connectors	A (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

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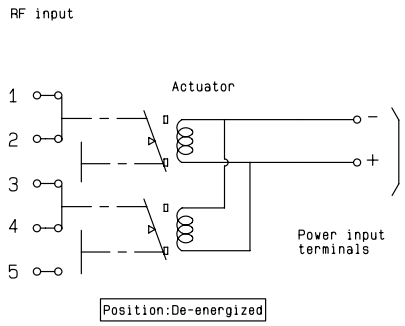
RADIALL
The next conneXion

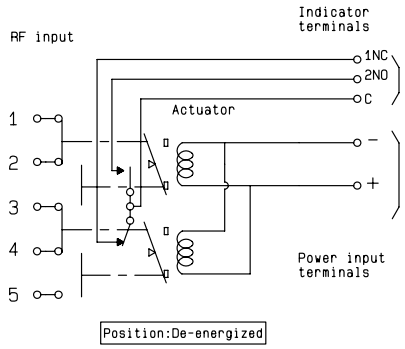
COAXIAL DP3T & Terminated SPDT - ELECTRICAL SCHEMATICS
R585 Series

FAILSAFE

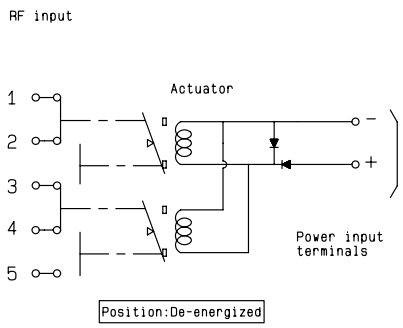
WITHOUT OPTION
R585 -1- 000 / R585 -1- 200 / R585 -1- 400



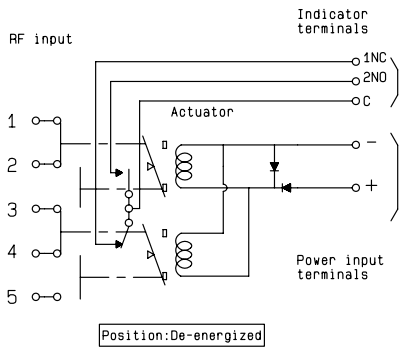
WITH INDICATOR CONTACT
R585 -2- 000 / R585 -2- 200 / R585 -2- 400



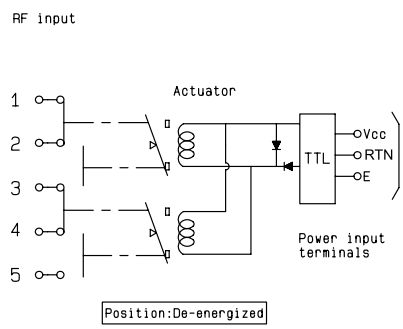
WITH SUPPRESSION DIODES
R585 -1- 030 / R585 -1- 230 / R585 -1- 430



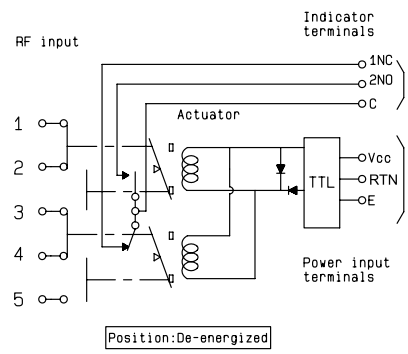
WITH SUPPRESSION DIODES AND INDICATOR CONTACT
R585 -2- 030 / R585 -2- 230 / R585 -2- 430



WITH TTL DRIVER
(suppression diodes are included)
R585 -1- 100 / R585 -1- 300 / R585 -1- 500



WITH TTL DRIVER AND INDICATOR CONTACT
(suppression diodes are included)
R585 -2- 100 / R585 -2- 300 / R585 -2- 500



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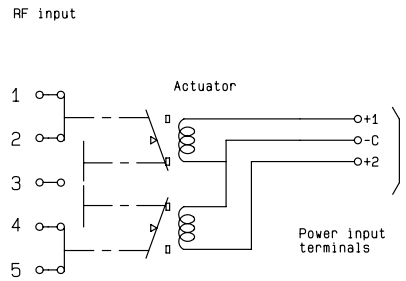
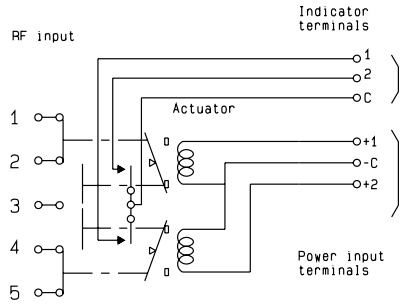
COAXIAL DP3T & Terminated SPDT - ELECTRICAL SCHEMATICS
R585 Series

NORMALLY OPEN

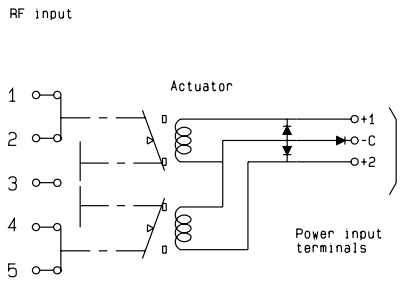
WITHOUT OPTION
R585 -7- 000 / R585 -7- 200 / R585 -7- 400



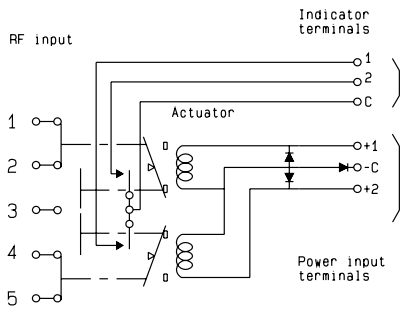
WITH INDICATOR CONTACT
R585 -8- 000 / R585 -8- 200 / R585 -8- 400



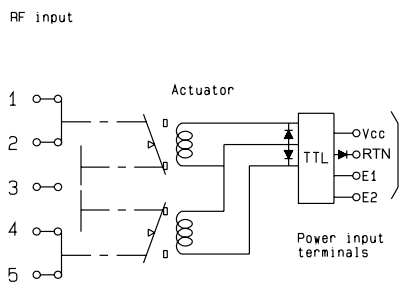
WITH SUPPRESSION DIODES
R585 -7- 030 / R585 -7- 230 / R585 -7- 430



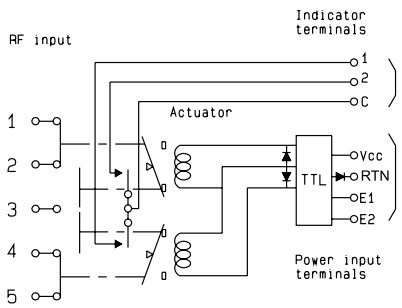
WITH SUPPRESSION DIODES AND INDICATOR CONTACT
R585 -8- 030 / R585 -8- 230 / R585 -8- 430



WITH TTL DRIVER
(suppression diodes are included)
R585 -7- 100 / R585 -7- 300 / R585 -7- 500



WITH TTL DRIVER AND INDICATOR CONTACT
(suppression diodes are included)
R585 -8- 100 / R585 -8- 300 / R585 -8- 500



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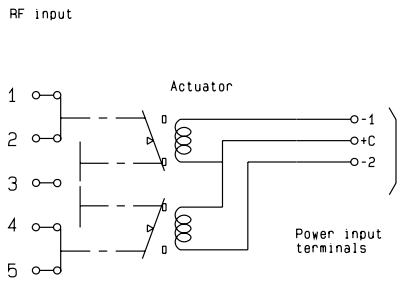
COAXIAL DP3T & Terminated SPDT - ELECTRICAL SCHEMATICS

R585 Series

NORMALLY OPEN

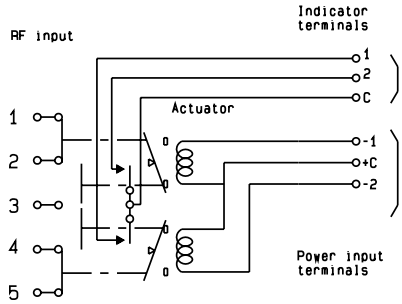
WITH POSITIVE COMMON, NO OPTION

R585 -7- 010 / R585 -7- 210 / R585 -7- 410



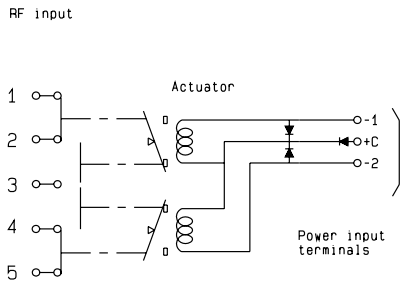
WITH POSITIVE COMMON AND INDICATOR CONTACT

R585 -8- 010 / R585 -8- 210 / R585 -8- 410



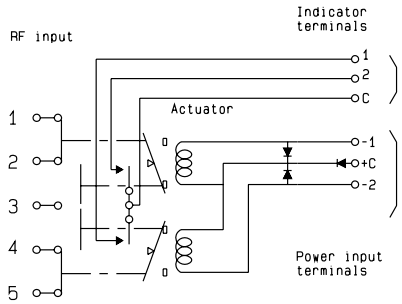
WITH POSITIVE COMMON AND SUPPRESSION DIODES

R585 -7- 040 / R585 -7- 240 / R585 -7- 440



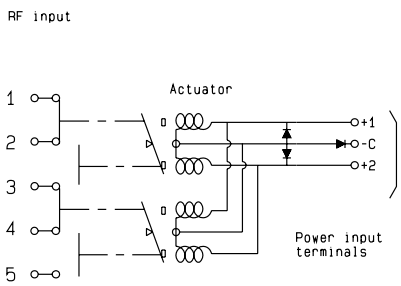
WITH POSITIVE COMMON, INDICATOR CONTACT AND SUPPRESSION DIODES

R585 -8- 040 / R585 -8- 240 / R585 -8- 440



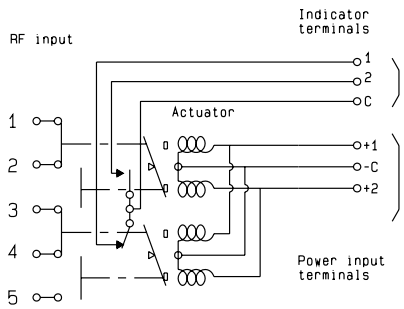
WITHOUT OPTION

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



WITH INDICATOR CONTACT

R585 -4- 000 / R585 -4- 200 / R585 -4- 400



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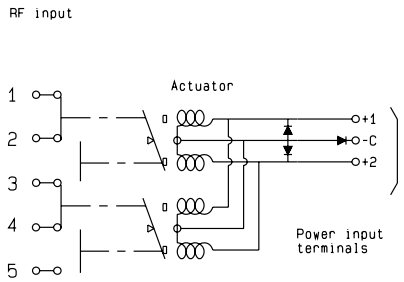
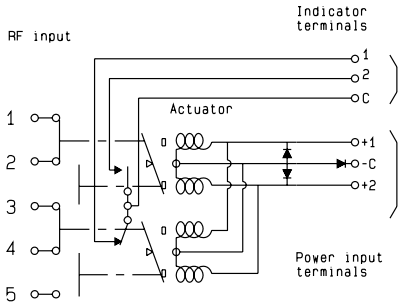
COAXIAL DP3T & Terminated SPDT - ELECTRICAL SCHEMATICS
R585 Series

LATCHING

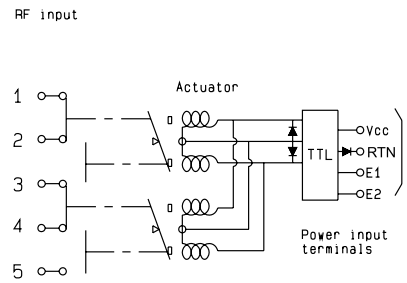
WITH SUPPRESSION DIODES
R585 -3- 030 / R585 -3- 230 / R585 -3- 430



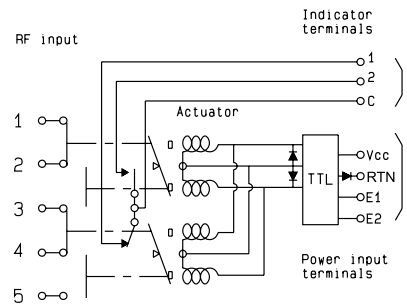
WITH SUPPRESSION DIODES AND INDICATOR CONTACT
R585 -4- 030 / R585 -4- 230 / R585 -4- 430



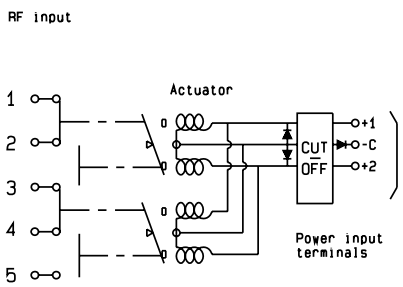
WITH TTL DRIVER
(suppression diodes are included)
R585 -3- 100 / R585 -3- 300 / R585 -3- 500



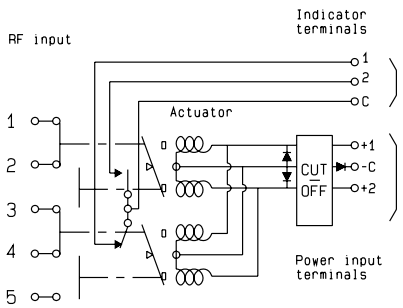
WITH TTL DRIVER AND INDICATOR CONTACT
(suppression diodes are included)
R585 -4- 100 / R585 -4- 300 / R585 -4- 500



WITH CUT-OFF
(suppression diodes are included)
R585 -5- 000 / R585 -5- 200 / R585 -5- 400



WITH CUT-OFF AND INDICATOR CONTACT
(suppression diodes are included)
R585 -6- 000 / R585 -6- 200 / R585 -6- 400



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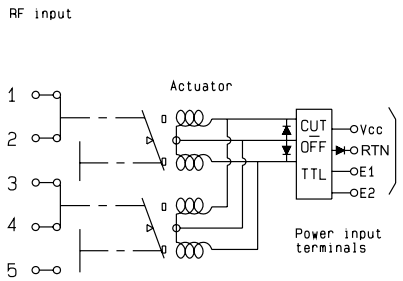
COAXIAL DP3T & Terminated SPDT - ELECTRICAL SCHEMATICS

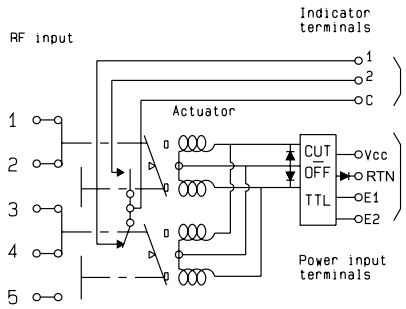
R585 Series

LATCHING

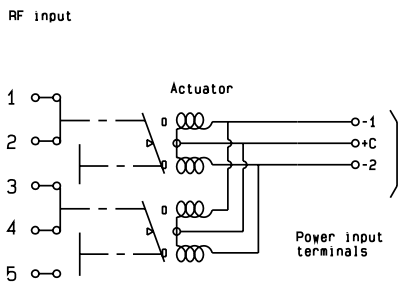
WITH CUT-OFF AND TTL DRIVER
(suppression diodes are included)
R585 -5- 100 / R585 -5- 300 / R585 -5- 500



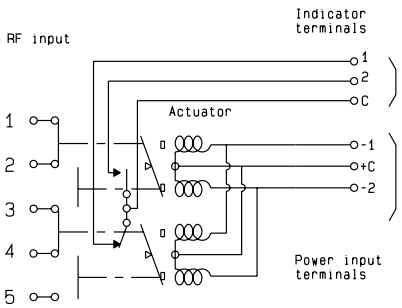
WITH CUT-OFF, TTL DRIVER AND INDICATOR CONTACT
(suppression diodes are included)
R585 -6- 100 / R585 -6- 300 / R585 -6- 500



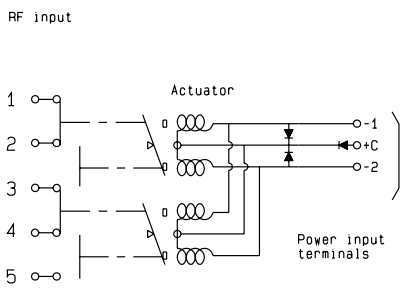
WITH POSITIVE COMMON, NO OPTION
R585 -3- 010 / R585 -3- 210 / R585 -3- 410



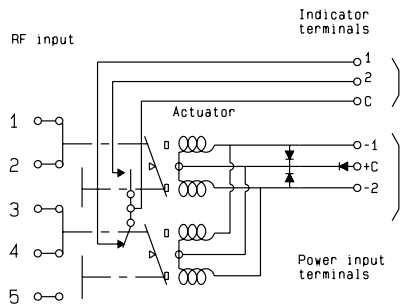
WITH POSITIVE COMMON AND INDICATOR CONTACT
R585 -4- 010 / R585 -4- 210 / R585 -4- 410



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



WITH POSITIVE COMMON, SUPPRESSION DIODES AND INDICATOR CONTACT
R585 -4- 040 / R585 -4- 240 / R585 -4- 440

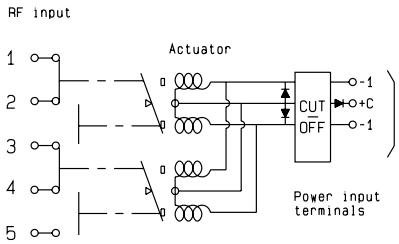


To download technical data sheets, visit www.radiall.com & enter the part number in the Search box.
For more detailed technical information please consult Radiall customer support.

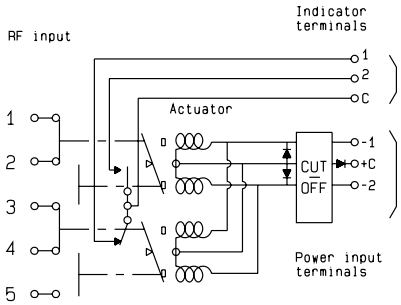
COAXIAL DP3T & Terminated SPDT - ELECTRICAL SCHEMATICS
R585 Series

LATCHING

WITH POSITIVE COMMON AND CUT-OFF
(suppression diodes are included)
R585 -5- 010 / R585 -5- 210 / R585 -5- 410



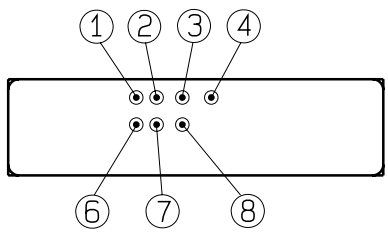
WITH POSITIVE COMMON, CUT-OFF AND INDICATOR CONTACT
(suppression diodes are included)
R585 -6- 010 / R585 -6- 210 / R585 -6- 410



PIN IDENTIFICATION

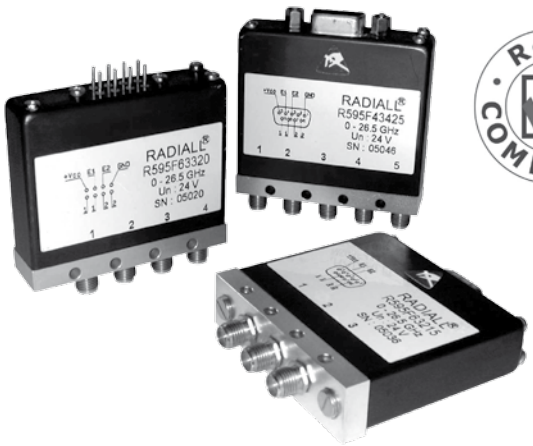
Type	PIN						
	1	2	3	4	6	7	8
Failsafe	+		-				
Failsafe + I.C.	+		-		2NO	1NC	C
Failsafe + TTL	E		RTN	VCC			
Failsafe + I.C. + TTL	E		RTN	VCC	2NO	1NC	C
Latching Latching + Cut-off	-2 or +2	-1 or +1	+C or -C				
Latching + I.C. Latching + I.C. + Cut-off	-2 or +2	-1 or +1	+C or -C		2	1	C
Latching + TTL Latching + TTL + Cut-off	E2	E1	RTN	VCC			
Latching + TTL + I.C. Latching + TTL + I.C. + Cut-off	E2	E1	RTN	VCC	2	1	C
Normally open	-2	-1	+C				
Normally open + I.C.	-2	-1	+C				
Normally open + TTL	E2	E1	RTN	VCC			
Normally open + TTL + I.C.	E2	E1	RTN	VCC	2	1	C

Bottom view



To download technical data sheets, visit www.radiall.com & enter the part number in the Search box.
For more detailed technical information please consult Radiall customer support.

High performance DP3T & Terminated SPDT up to 26.5 GHz
SMA



RoHS COMPLIANT

Radiall's PLATINUM series switches are optimised to perform at a high level over an extended life span. With outstanding RF performances, 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

R 595 . . . . . .

RF Connectors:
3: SMA up to 6 GHz
4: SMA up to 20 GHz
F: SMA up to 26.5 GHz

Type:
3: Latching
4: Latching + I.C.
5: Latching + S.C.O.
6: Latching + S.C.O. + I.C.

Actuator Voltage:
3: 24 Vdc
7: 15 Vdc

Switch Model:
2: Terminated SPDT switch
3: Terminated 4 ports bypass switch
4: Non terminated 5 ports DP3T switch

Documentation:
-: Certificate of conformity
C: Calibration certificate
R: Calibration certificate + RF curves

Actuator Termination:
0: Solder pins
5: D-Sub connector

Options:
1: Without option (positive common)
2: Compatible TTL driver (high level)

To download technical data sheets, visit www.radiall.com & enter the part number in the Search box.
For more detailed technical information please consult Radiall customer support.

High performance DP3T & Terminated SPDT up to 26.5 GHz
SMA

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
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 Ohms
TTL input	High level		3 to 7 Volts: 800µA max at 7 Volts	
	Low level		0 to 0.8 Volts: 20µA max at 0.8 Volts	
Switching time (max)		ms	15	
Life (min)			10 million cycles	
Connectors			SMA	
Actuator terminal			D-Sub 9 pin female 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)

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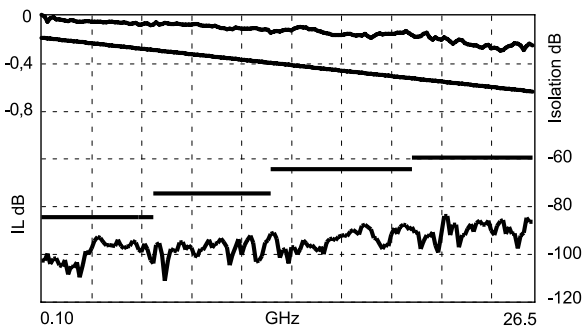
High performance DP3T & Terminated SPDT up to 26.5 GHz
SMA

RF PERFORMANCES

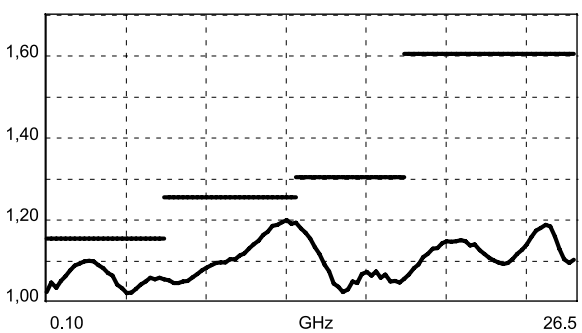
Part Number		R5953-----	R5954-----		R595F-----	
Frequency range	GHz	DC to 6	DC to 20		DC to 26.5	
Impedance	Ω	50				
Insertion Loss (max)	dB	0.20 + (0.45 / 26.5) x frequency (GHz)				
Isolation (min)		85	DC to 6 GHz	85	DC to 6 GHz	85
			6 to 12.4 GHz	75	6 to 12.4 GHz	75
			12.4 to 20 GHz	65	12.4 to 20 GHz	65
					20 to 26.5 GHz	60
V.S.W.R. (max)		1.15	DC to 6 GHz	1.15	DC to 6 GHz	1.15
			6 to 12.4 GHz	1.25	6 to 12.4 GHz	1.25
			12.4 to 18 GHz	1.30	12.4 to 18 GHz	1.30
			18 to 20 GHz	1.60	18 to 26.5 GHz	1.60
Repeatability (up to 10 million cycles mesured at 25°C)		0.03 dB maximun				

TYPICAL RF PERFORMANCES

Insertion Loss and Isolation



V.S.W.R.



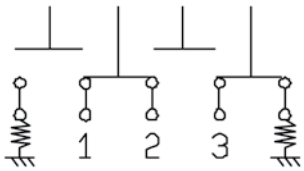
To download technical data sheets, visit www.radiall.com & enter the part number in the Search box.
For more detailed technical information please consult Radiall customer support.

SWITCH MODEL: TERMINATED SPDT SWITCH

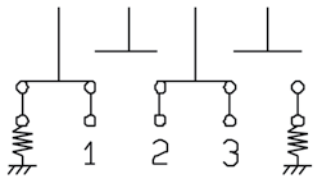
The terminated SPDT switch is a single pole double throw switch. The unused ports are terminated into 50 ohms. This switch is “break before make”.

RF SCHEMATIC DIAGRAM

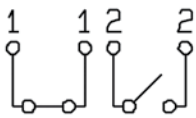
POSITION E1



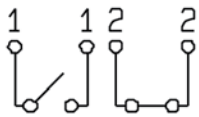
POSITION E2



POSITION INDICATORS



STATE “11”



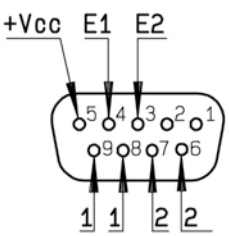
STATE “22”

Standard drive option “1” (Positive common):

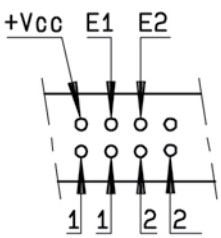
- Connect pin +Vcc to supply (+20 Vdc to +32 Vdc).
- Select desired RF path by applying ground to the corresponding "close" pin (Ex: ground pin E1 to switch to position E1. RF path 1-2 closed and RF path 2-3 open).
- To open desired path and close the new RF path, connect ground to the corresponding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

TTL drive option “2”

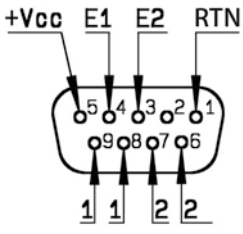
- Connect pin RTN to ground.
- Connect pin +Vcc to supply (+20 Vdc to +32 Vdc)
- Select (close) desired RF path by applying TTL "High" to the corresponding "drive" pin. (Ex: apply TTL "High" to pin E1 to switch to position E1. RF path 1-2 closed and RF path 2-3 open).
- To open desired path and close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



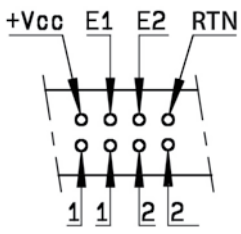
D-Sub connector



Solder pins



D-Sub connector

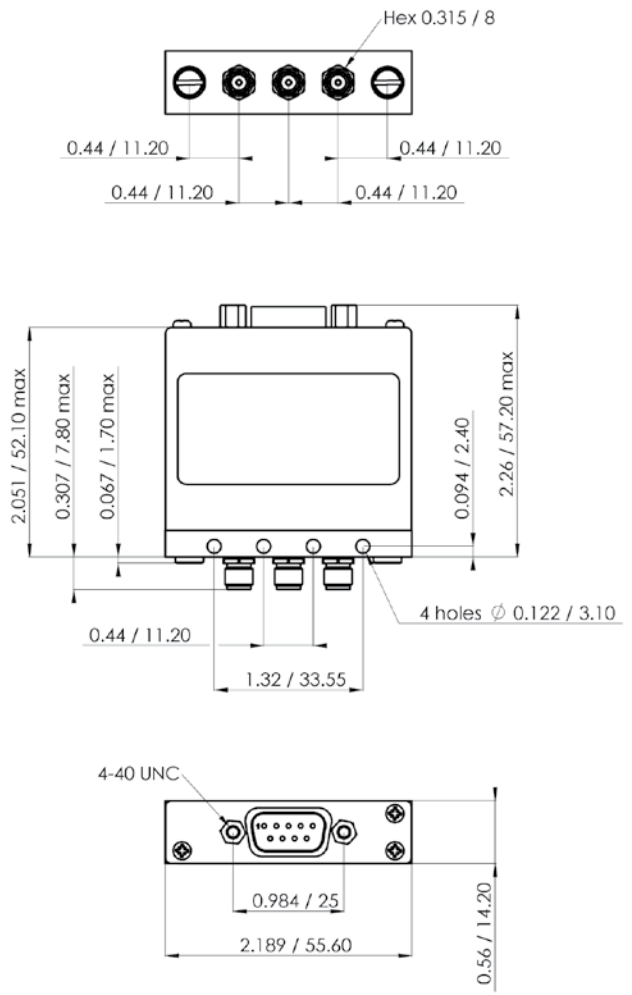


Solder pins

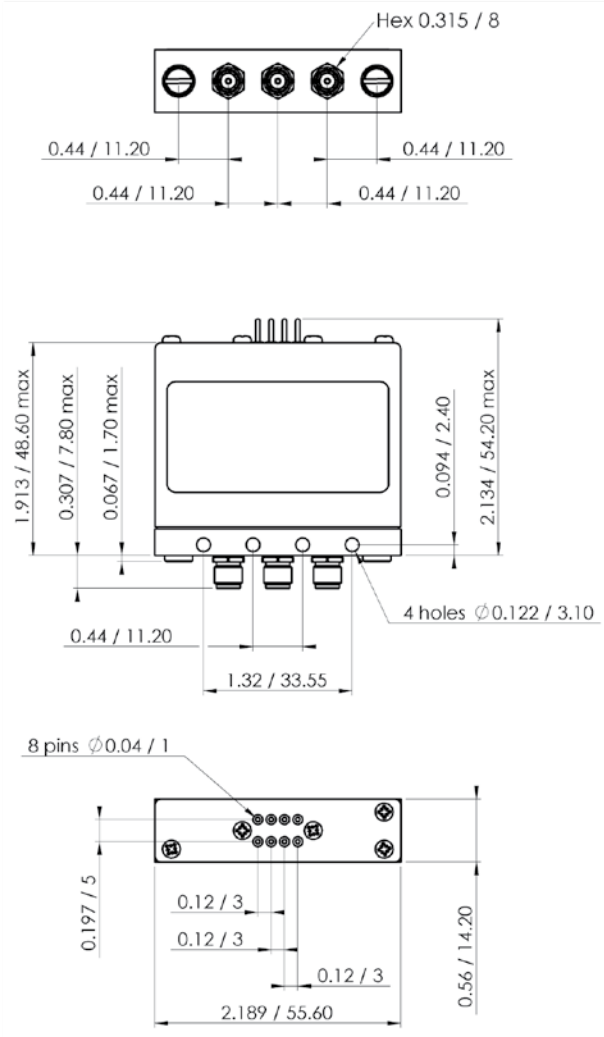
To download technical data sheets, visit www.radiall.com & enter the part number in the Search box.
For more detailed technical information please consult Radiall customer support.

SWITCH MODEL: TERMINATED SPDT SWITCH

With D-Sub connector



With solder pins



All dimensions are in inches/millimeters

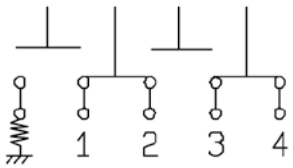
To download technical data sheets, visit www.radiall.com & enter the part number in the Search box.
For more detailed technical information please consult Radiall customer support.

SWITCH MODEL: TERMINATED 4 PORT BYPASS SWITCH

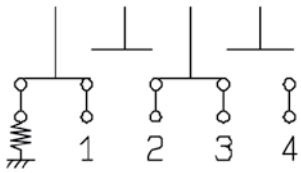
The terminated 4 port bypass switch can terminate into the 50 ohms device under test.
These switches are “break before make”.

RF SCHEMATIC DIAGRAM

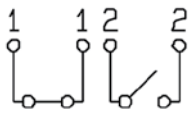
POSITION E1



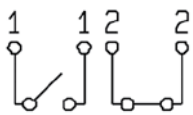
POSITION E2



POSITION INDICATORS



STATE “11”



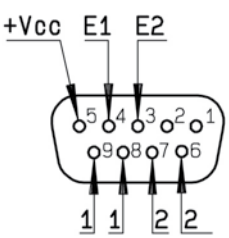
STATE “22”

Standard drive option “1” (Positive common):

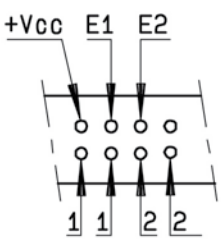
- Connect pin +Vcc to supply (+20 Vdc to +32 Vdc).
- Select desired RF path by applying ground to the corresponding "close" pin (Ex: ground pin E1 to switch to position E1. RF path 1-2 and RF path 3-4 closed and RF path 2-3 open).
- To open desired path and close the new RF path, connect ground to the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

TTL drive option “2”:

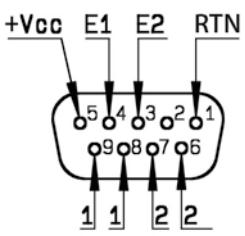
- Connect pin RTN to ground.
- Connect pin +Vcc to supply (+20 Vdc to +32 Vdc).
- Select (close) desired RF path by applying TTL "High" to the corresponding "drive" pin (Ex: apply TTL "High" to pin E1 to switch to position E1. RF path 1-2 and 3-4 closed and RF path 2-3 open).
- To open desired path and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



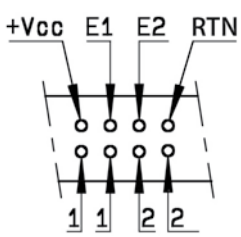
D-Sub connector



Solder pins



D-Sub connector

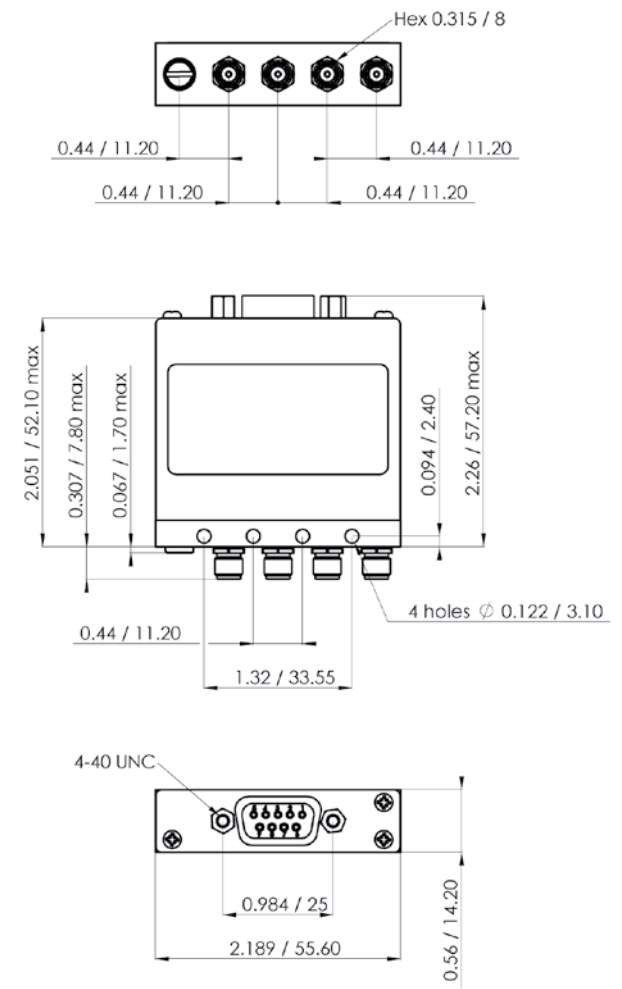


Solder pins

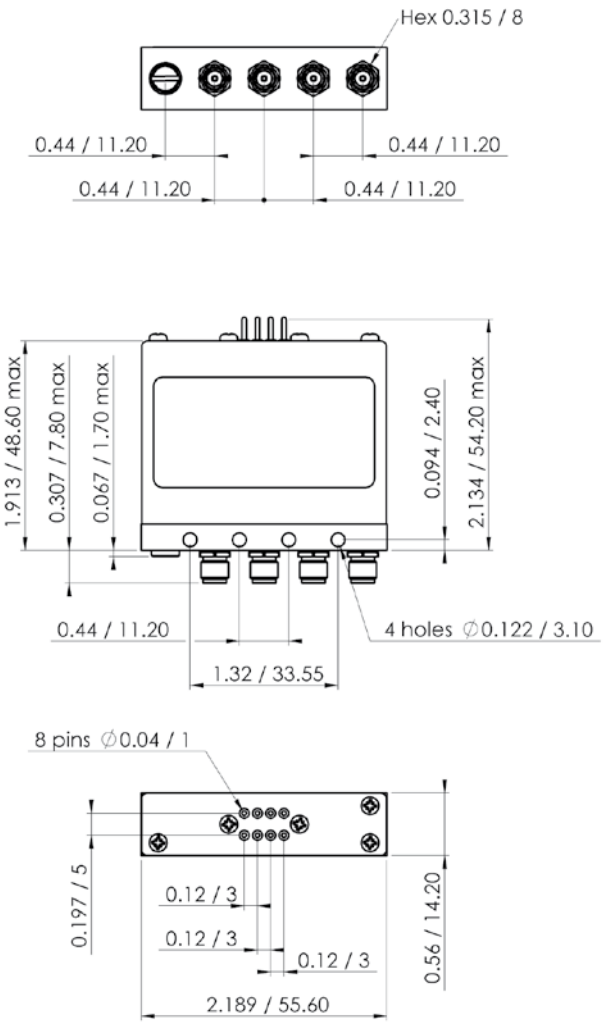
To download technical data sheets, visit www.radiall.com & enter the part number in the Search box.
For more detailed technical information please consult Radiall customer support.

SWITCH MODEL: TERMINATED 4 PORT BYPASS SWITCH

With D-Sub connector



With solder pins



All dimensions are in inches/millimeters

To download technical data sheets, visit www.radiall.com & enter the part number in the Search box.
For more detailed technical information please consult Radiall customer support.

SWITCH MODEL: 5 PORT DP3T SWITCH

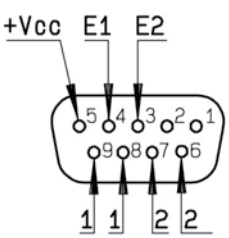
The non terminated 5 port DP3T switch can be used as SPDT with high power terminations, as a bypass switch.
In this application, the fifth port can be terminated externally with a high power termination.
These switches are “break before make”.

RF SCHEMATIC DIAGRAM

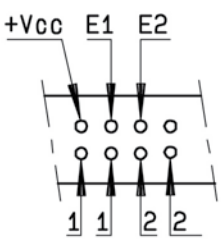
POSITION INDICATORS

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).



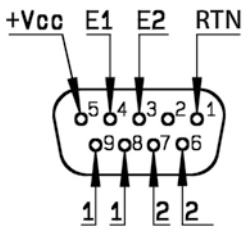
D-Sub connector



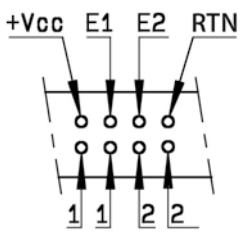
Solder pins

TTL drive option “2”:

- Connect pin RTN 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

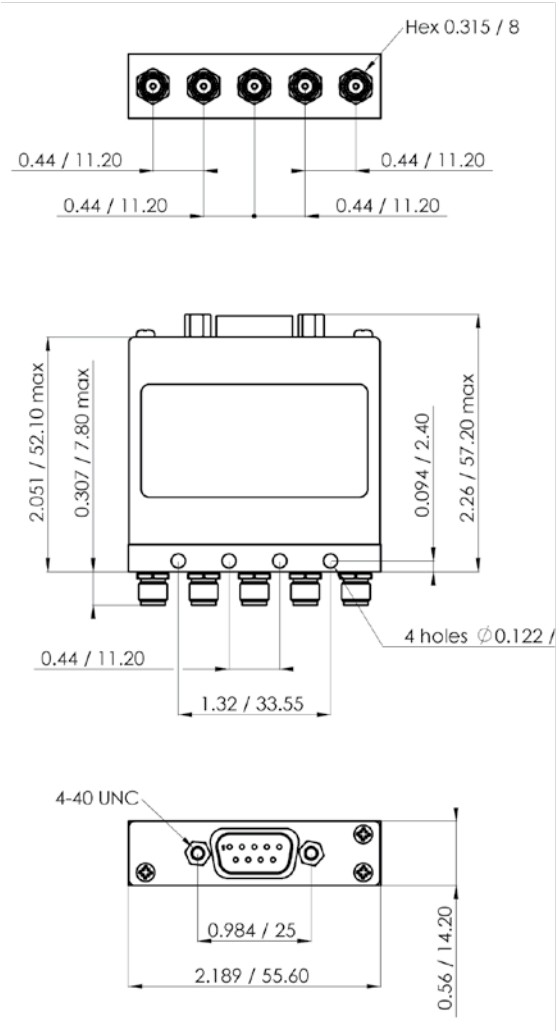


Solder pins

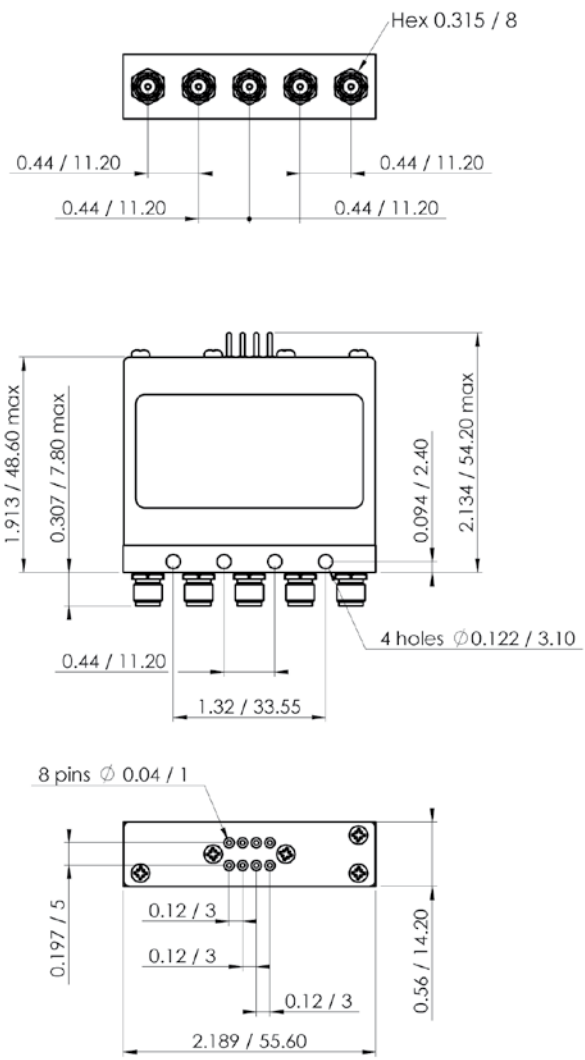
To download technical data sheets, visit www.radiall.com & enter the part number in the Search box.
For more detailed technical information please consult Radiall customer support.

SWITCH MODEL: 5 PORT DP3T SWITCH

With D-Sub connector



With solder pins



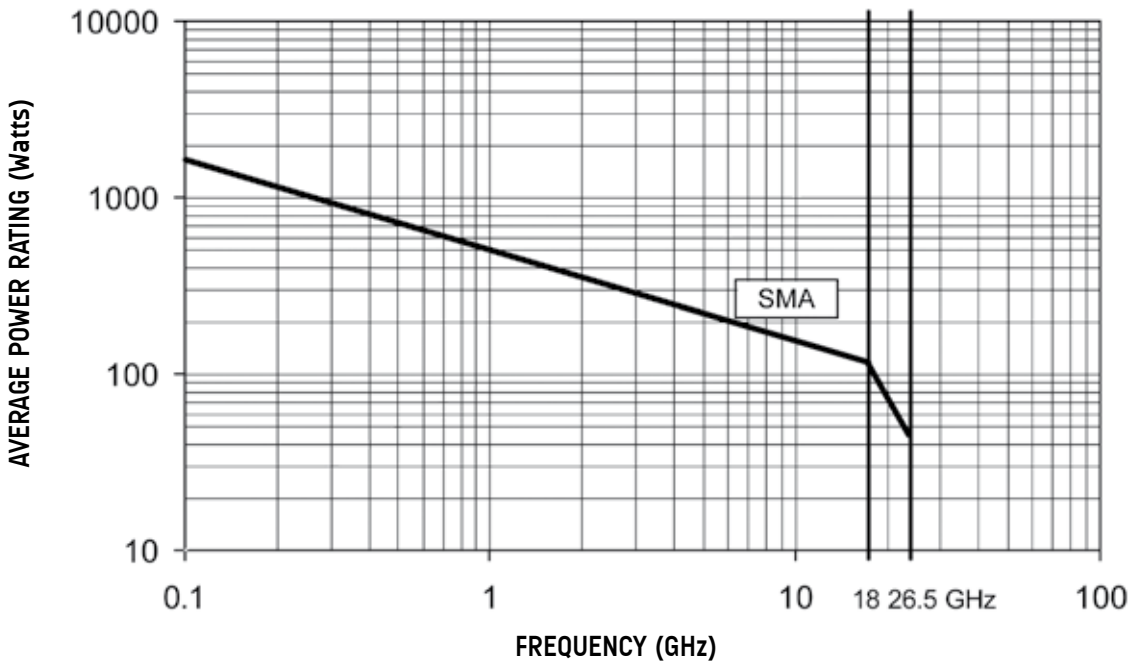
All dimensions are in inches/millimeters

To download technical data sheets, visit www.radiall.com & enter the part number in the Search box.
For more detailed technical information please consult Radiall customer support.

POWER RATING CHART

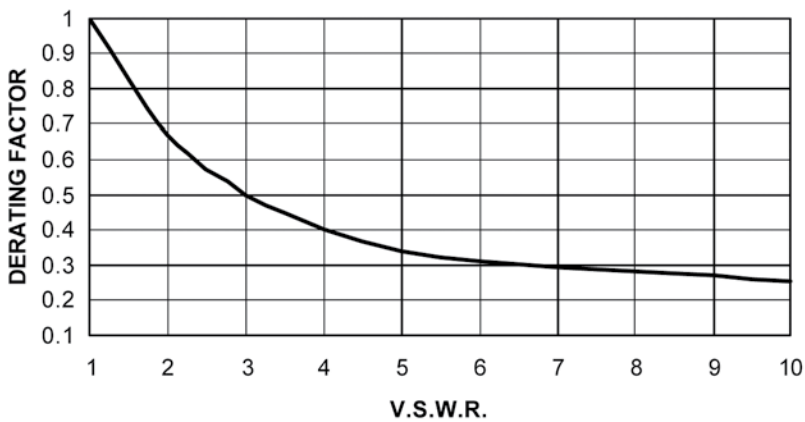
This graph is based on the following conditions:

- 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



To download technical data sheets, visit www.radiall.com & enter the part number in the Search box.
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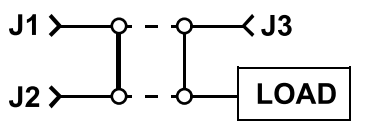
Optional features for DP3T switches

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 Teminated is composed of a DP3T with SMA connectors and 2 RADIALL cable loads used as medium power terminations. The Key advantage of this solution is the ability to mount the switch with external terminations at power level desired.

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

To download technical data sheets, visit www.radiall.com & enter the part number in the Search box.
For more detailed technical information please consult Radiall customer support.

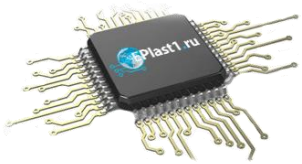
Компания «ЭлектроПласт» предлагает заключение долгосрочных отношений при поставках импортных электронных компонентов на взаимовыгодных условиях!

Наши преимущества:

- Оперативные поставки широкого спектра электронных компонентов отечественного и импортного производства напрямую от производителей и с крупнейших мировых складов;
- Поставка более 17-ти миллионов наименований электронных компонентов;
- Поставка сложных, дефицитных, либо снятых с производства позиций;
- Оперативные сроки поставки под заказ (от 5 рабочих дней);
- Экспресс доставка в любую точку России;
- Техническая поддержка проекта, помощь в подборе аналогов, поставка прототипов;
- Система менеджмента качества сертифицирована по Международному стандарту ISO 9001;
- Лицензия ФСБ на осуществление работ с использованием сведений, составляющих государственную тайну;
- Поставка специализированных компонентов (Xilinx, Altera, Analog Devices, Intersil, Interpoint, Microsemi, Aeroflex, Peregrine, Syfer, Eurofarad, Texas Instrument, Miteq, Cobham, E2V, MA-COM, Hittite, Mini-Circuits,General Dynamics и др.);

Помимо этого, одним из направлений компании «ЭлектроПласт» является направление «Источники питания». Мы предлагаем Вам помощь Конструкторского отдела:

- Подбор оптимального решения, техническое обоснование при выборе компонента;
- Подбор аналогов;
- Консультации по применению компонента;
- Поставка образцов и прототипов;
- Техническая поддержка проекта;
- Защита от снятия компонента с производства.



Как с нами связаться

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