

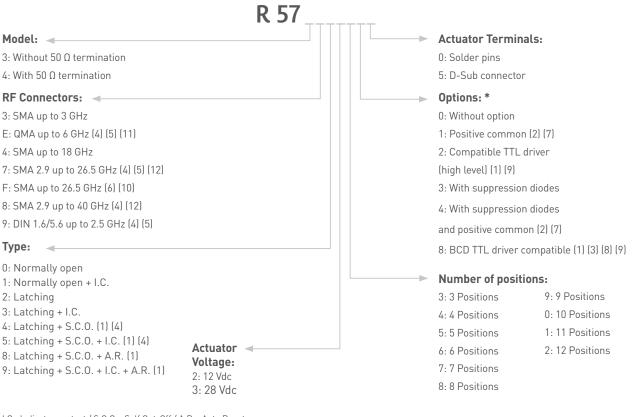
Radiall's R573 & R574 multithrow coaxial switches are offered in many configurations (over 40,000 possible combinations) including Terminated and non Terminated options. Radiall offers reliable products, with shorter delivery times and competitive pricing. Excellent typical RF performance make RAMSES switches (40 GHz) ideal for Automated Test Equipment (ATE) and other measurement applications.

These switches are suitable for defense, industrial, instrumentation and telecommunication applications.

#### Example of P/N:

R574453605 is a terminated SP6T SMA up to 18 GHz, Latching, Self Cut-Off, 28 Vdc, Indicators and male 25 pin D-Sub connector.

## PART NUMBER SELECTION



I.C.: Indicator contact / S.C.O. : Self Cut-Off / A.R. : Auto Reset

(1): These models are already equiped with suppression diodes

(2): Standard products are equiped with negative common

(3): Latching BCD driver enables also a global reset through driver code 0000 (see BCD logic coding page 1-11)

(4): Available only up to 6 positions

(5): Model "3" only

(6): Model "4" only up to 6 positions

(7): Option not available for type 4, 5, 8 and 9

(8): Option available only with type 0, 1, 8 and 9

(9): Polarity is not relevant to application for switches with TTL driver

(10): 8 and 10 positions are available only up to 22 GHz, 12 positions only up to 18 GHz  $\,$ 



(11) : The QLF tradermark (quick lock formula®) standard applies to QMA and QN series and guaranties the full intermateability between suppliers using this tradermark. Using QLF certificied connectors also guarantees the specified level of RF performance

(12) connector SMA 2.9 is equivalent to "K connector  $\ensuremath{\mathfrak{B}}$  ", registered trademark of Anritsu

\*For precisions see availability of options chart page 5-9



## **GENERAL SPECIFICATIONS**

## Type 2, 3, 4 and 5:

Latching models have a RESET pin which commands the reset of all positions. This command should be used before switching from one position to another. If not, two positions will be set at the same time.

Note: During the RESET operation the global current is: the nominal operating current multiplied by the number of positions.

## Туре 8, 9:

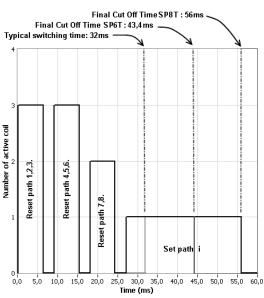
Latching models with AUTOMATIC RESET are available; these products have an internal SET/RESET circuit which automatically resets all the non-selected positions and sets the desired position. This option simplifies the use of latching switches by suppressing the RESET command in switching sequence.

An electronic circuit supplies successively groups of 2, 3 or 4 actuators, in order to limit the maximum current. The current with this option is the total current of 2, 3 or 4 reset coils in the same time (see table below).

Example: During the AUTOMATIC RESET operation, at 28 Vdc, 4 position switch has a temporary consumption of only 250 mA, during 40 ms maximum.

## SWITCHING SEQUENCE

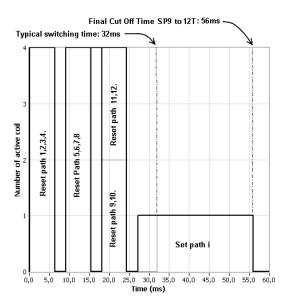
For SP6 to 8T



n = number of positions

Operating Total Current At 23 ° C (mA) SPnT Latching						
Number	Number 12 Volts 28 Volts					
of	Manual	Automatic	Manual	Automatic		
positions	Reset	Reset	Reset	Reset		
3 to 4	320 x n	640	125 x n	250		
5 to 8	320 x n	960	125 x n	375		
9 to 12	320 x n	1280	125 x n	500		

For SP9 to 12T



Availability of options according to both type and number of positions

Туре	Numbers of positions	Available options
0 or 1	3 to 12	0 - 1 - 2 - 3 - 4 - 8
2 or 3	3 to 6	0 - 1 - 2 - 3 - 4
2 01 3	7 to 12	0 - 1 - 3 - 4
	3 to 6	0 - 2
4 or 5	7 to 12	Not available
8 or 9	3 to 12	0 - 2 - 8



# SPnT Terminated & non Terminated up to 40 GHz

## SMA – SMA 2.9 – QMA - DIN 1.6 / 5.6 GENERAL SPECIFICATIONS

RAMSES SERIES

0	peratin	g mode	Normal	ly open	Latch	ning
Nominal operating volt	age	Vdc	12 (10.2 / 13)	28 (24 / 30)	12 (10.2 / 13)	28 (24 / 30)
Coil resistance (+/-10%	5)	Ω	47.5	275		
Nominal operating current at 23°C		mA	250	102	See table on previous page	
Average power				See Power Rating	) Chart page <b>1-13</b>	
TTL input		High Level		2.2 to 5.5 V (TTL Optio 3.5 to 5.5 V (BCD Option		ts
TTL input		Low Level	0	0 to 0.8 V (TTL Option) / to 1.5 V (BCD Option)	20µA max 0.8 volts	
Indicator rating				1 Watt / 30 V	olts / 100 mA	
Switching time (Max)		ms	15 ms For automatic reset models: SP3T to SP6T => 40 ms SP7T to SP12T => 50 ms			
		terminated SP3 to 6T (R573 serie)	SMA -	- QMA	SMA 2.9 - 1.6/5.6	
Life (Min)	INON	terminated SP3 to 61 (R573 serie)	5 million cycles 2 million cycles		cycles	
	Te	rminated SP3 to 6T (R574 serie) SP7 to 12T (all models)	2 million cycles			
Connectors			SMA - SMA2.9 - QMA - DIN 1.6/5.6			
Actuator terminals			Solder pins or male 25 pin D-sub connector			
Operating temperature	<u>;</u>	DIN 1.6/5.6		-25°C t	o +70°C	
range		SMA - SMA 2.9 - QMA		-40°C t	o +85°C	
Charles have been been been been been been been be		DIN 1.6/5.6		-40°C t	o +85°C	
Storage temperature r	ange	SMA - SMA 2.9 - QMA		-55°C t	o +85°C	
Vibration (MIL STD 202, method 204D, cond.D)		d 204D, cond.D)	10-2000 Hz , 20g operating for SP3 to 8T, survival for SP7 to 12T			
Shock (MIL STD 202, method 213B, cond.C)		100g / 6 ms, 1/2 sine operating for SP3 to 8T,survival for SP7 to 12T				

## **RF PERFORMANCES**

	SMA Connector							
Number of positions	Frequency	Range GHz	V.S.W.R. (max)	Insertion Loss (max) dB	Isolation (min) dB	Impedance $\Omega$		
	DC - 3	DC - 3	1.20	0.20	80			
		3-8	1.30	0.30	70			
3 to 6	DC - 18	8 - 12.4	1.40	0.40	60			
	DC - 26.5	12.4 - 18	1.50	0.50	60			
		18 - 26.5	1.70	0.70	50			
		DC - 3	1.20	0.20	80			
		3 - 8	1.30	0.30	70			
7 to 8	DC - 3	8 - 12.4	1.40	0.40	60	50		
7 10 0	DC - 22	12.4 - 16	1.50	0.55	60			
		16 - 18	1.60	0.60	60			
		18 - 22	1.70	0.70	60			
		DC - 3	1.20	0.20	80	00		
		3 - 8	1.30	0.30	70			
9 to 10	DC - 3	8 - 12.4	1.40	0.40	60			
7 10 10	DC - 22	12.4 - 15.5	1.50	0.50	60			
		15.5 - 18	1.70	0.70	55			
		18 - 22	1.80	0.80	55			
		DC - 3	1.20	0.20	80			
		3 - 8	1.40	0.40	70			
11 to 12	DC - 3 DC - 18	8 - 12.4	1.60	0.60	60			
	00 - 10	12.4 - 15	1.70	0.70	60			
		15 - 18	1.80	0.80	50			



# **RF PERFORMANCES**

SMA2.9 Connector							
Number of positions	Frequency	Range GHz	V.S.W.R. (max)	Insertion Loss (max) dB	Isolation (min) dB	Impedance Ω	
	DC - 6	1.30	0.20	70			
		6 - 12.4	1.40	0.40	60	50	
3 to 6	DC - 26.5 DC - 40	12.4 - 18	1.50	0.50	60		
DC - 40	18 - 26.5	1.70	0.70	55			
	26.5 - 40	2.20	1.10	50			

1.6/5.6 Connector						
Number of positions	Frequency	Range GHz	V.S.W.R. (max)	Insertion Loss (max) dB	Isolation (min) dB	Impedance Ω
2 + - /		DC - 1	1.30	0.20	80	75
3 10 6	3 to 6 DC - 2.5		1.40	0.30	70	/5

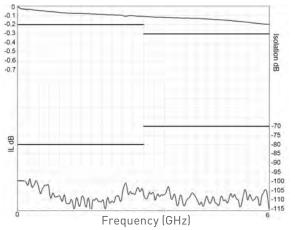
QMA Connector							
Number of positions	Frequency Range GHz					Impedance Ω	
21.1	D0 /	DC - 3	1.20	0.20	80	50	
3 to 6 DC - 6		3 - 6	1.30	0.30	70	- 50	

See page 5-12, 5-13, 5-14 and 5-15 for typical RF performances

# **R573 AND R574 TYPICAL RF PERFORMANCES**

Example: SP6T QMA up to 6 GHz

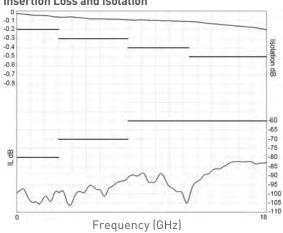
Insertion Loss and Isolation



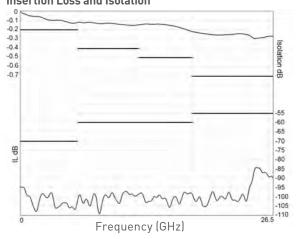
# V.S.W.R.



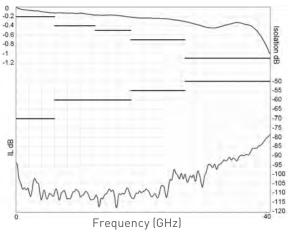
Example: Non terminated SP6T SMA up to 18 GHz Insertion Loss and Isolation

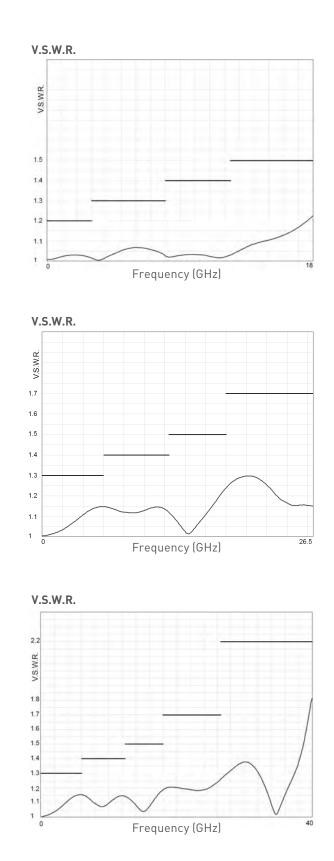


Example: Non terminated SP6T SMA 2.9 up to 26.5 GHz Insertion Loss and Isolation



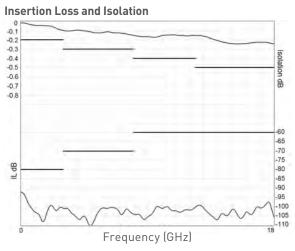
Example: Non terminated SP6T SMA 2.9 up to 40 GHz Insertion Loss and Isolation





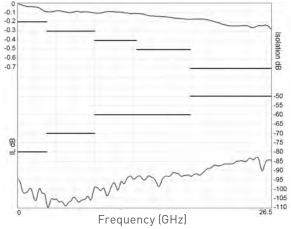


Example: Terminated SP6T SMA up to 18 GHz

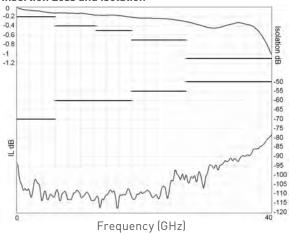


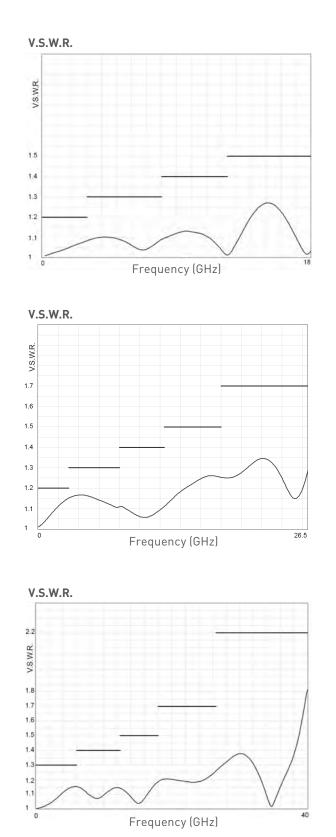
Example: Terminated SP6T SMA up to 26.5 GHz

Insertion Loss and Isolation



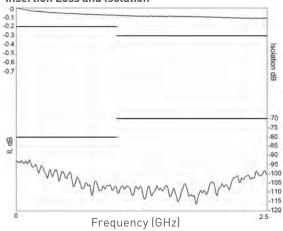
Example: Terminated SP6T SMA 2.9 up to 40 GHz Insertion Loss and Isolation





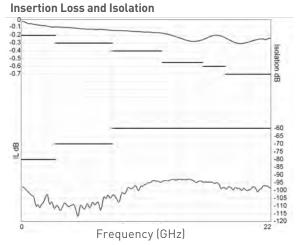


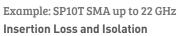
Example: Non terminated SP6T 1.6/5.6 up to 2.5 GHz Insertion Loss and Isolation

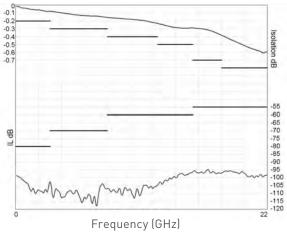


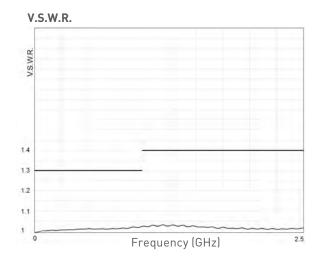
Example: SP8T SMA up to 22 GHz

**RAMSES SERIES** 

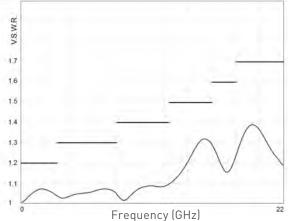




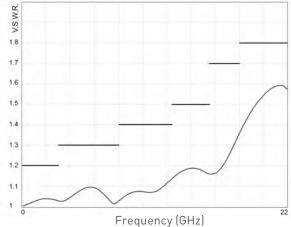




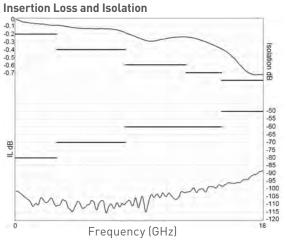








Example: SP12T SMA up to 18 GHz



# **TYPICAL OUTLINE DRAWINGS**

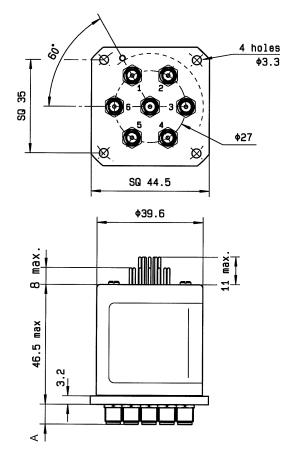
NON TERMINATED 3 to 6 positions

Connectors	A max (mm)
SMA up to 26.5 GHz	7.4
SMA2.9 up to 40 GHz	6.3
QMA up to 6 GHz	10.8
DIN 1.6/5.6 up to 2.5 GHz	11.5

Solder	Type 0 or 1 with option 0 - 1 - 3 or 4
pins	Type 2 or 3 with option 0 or 1

V.S.W.R.

Frequency (GHz)



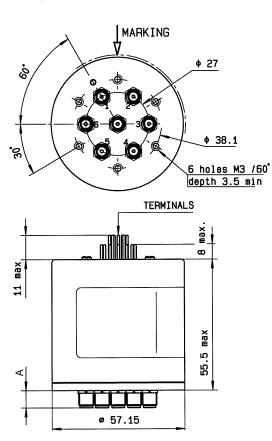
5-15

# TYPICAL OUTLINE DRAWINGS

NON TERMINATED 3 to 6 positions (continued)

Solder pin model

**RAMSES SERIES** 



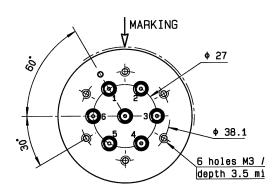
	Type 0 or 1 with option 2 or 8
Solder pins	Type 2 or 3 with option 2 - 3 - 4 or 8
	Type 4 - 5 - 8 or 9 with option 0 - 2 or 8

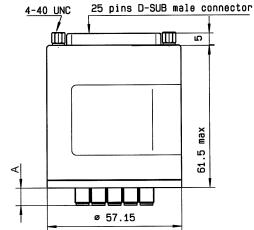
D-Sub connector

All models

Connectors	A max (mm)
SMA up to 26.5 GHz	7.4
SMA 2.9 up to 40 GHz	6.3
QMA up to 6 GHz	10.8
DIN 1.6/5.6 up to 2.5 GHz	11.5

D-sub model

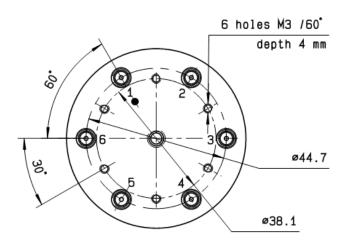


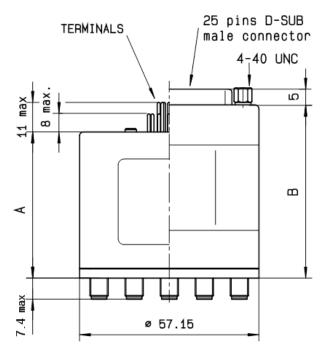




## **TYPICAL OUTLINE DRAWINGS**

**TERMINATED 3 to 6 positions** 





	А	В
	Solder Pins	D-Sub Connector
Type 0 - 1 - 2 or 3 with option 0 - 1 - 3 or 4	46.5	61.5
Type 0 - 1 - 2 or 3 with option 2 or 8	55.5	61.5
Type 4 - 5 - 8 or 9 with option 0 - 1 - 2 or 8	55.5	61.5



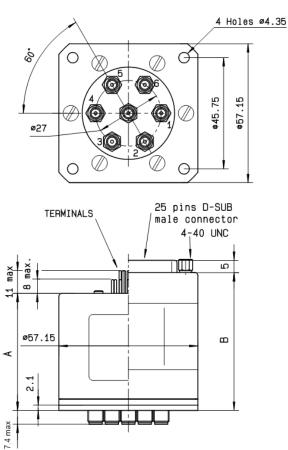
# SPnT Terminated & non Terminated up to 40 GHz

# SMA – SMA 2.9 – QMA - DIN 1.6 / 5.6

## **TYPICAL OUTLINE DRAWINGS**

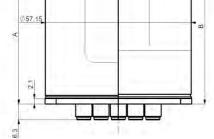
TERMINATED 3 to 6 positions 26.5 GHz & 40 GHz

26.5 GHz model



4 holes () 4,35 0 Q 5 6 0 045.75 30 20  $\overline{\psi}_{T}$ 0 Ο 25 pin D-SUB male connecto TERMINALS 4-40 UNC ПΠ 40 mĥ ma 57.15

40 GHz model



	A	В
	Solder Pins	D-Sub Connector
Type 0 - 1 - 2 or 3 with option 0 - 1 - 3 or 4	48.5	63.5
Type 0 - 1 - 2 or 3 with option 2 or 8	57.5	63.5
Type 4 - 5 - 8 or 9 with option 0 - 1 - 2 or 8	57.5	63.5



## **TYPICAL OUTLINE DRAWINGS**

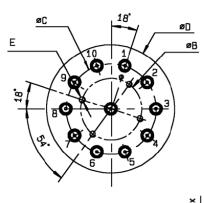
## TERMINATED or NON TERMINATED 7 to 12 positions

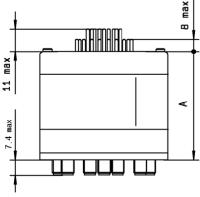
Tune	A (max) mm		
Туре	Solder Pins	D-Sub connector	
Type 0 - 1 - 2 or 3 with option 0 - 1 - 3 or 4	50	66	
Type 0 - 1 - 2 or 3 with option 2 or 8 and Type 4 - 5 - 8 or 9 with option 0 - 1 - 2 or 8	61	66	

Number of positions	B diameter	C diameter	D diameter	E
7 - 8	49.8	44.7	56.9	
9 - 10	30.5	44.7	63.5	4 holes M3 depth 4mm
11 - 12	40.6	55.9	68.3	deptil 4mm

10 position model

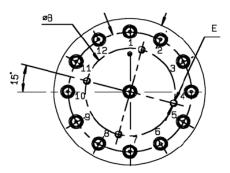
Terminated up to 18 GHz with solder pins

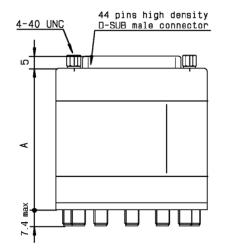




12 position model

Terminated up to 12.4 GHz with D-Sub





# SPnT up to 12.4 GHz - RAMSES Concept N - BNC - TNC



Radiall's R573 & R574 multithrow coaxial switches are offered in many configurations (over 40,000 possible combinations) including Terminated and non Terminated options. Radiall offers reliable products, with shorter delivery times and competitive pricing. Excellent typical RF performance make RAMSES switches (12.4 GHz) ideal for Automated Test Equipment (ATE) and other measurement applications.

These switches are suitable for defense, industrial, and telecommunication applications.

#### Example of P/N:

R573103600 is a SP6T N up to 12.4 GHz, Normally Open, 28 Vdc, and solder pins.

#### PART NUMBER SELECTION R 57 Actuator Terminals: Model: -3: Without 50 Ω termination 0: Solder pins 4: With 50 $\Omega$ termination 5: D-Sub connector RF Connectors: **Options:\*** 0: N up to 3 GHz 0: Without option 1: N up to 12.4 GHz (9) 1: Positive common (2) (6) 2: BNC up to 3 GHz (4) (5) 2: Compatible TTL driver (1) (8) 5: TNC up to 3 GHz (4) (5) 3: With suppression diodes 6: TNC up to 12.4 GHz (4) (5) 4: With suppression diodes and positive common [2] [6] 8: BCD TTL driver compatible (1) (3) (7) (8) Type: 🖛 0: Normally open 1: Normally open + I.C. 2: Latching Number of positions: 3: Latching + I.C. 4: Latching + S.C.O. (1) (4) 3: 3 Positions 8:8 Positions Actuator 5: Latching + S.C.O. + I.C. (1) (4) 4: 4 Positions 9:9 Positions Voltage: 8: Latching + S.C.O. + A.R. (1) 5: 5 Positions 0: 10 Positions 2: 12 Vdc 9: Latching + S.C.O. + I.C. + A.R. (1) 6: 6 Positions 1: 11 Positions 3: 28 Vdc 7: 7 Positions 2: 12 Positions

I.C.: Indicator contact / S.C.O.: Self Cut-Off / A.R.: Auto Reset

(1): These models are already equiped with suppression diodes

(2): Standard products are equiped with negative common

(3): Latching BCD driver enables also a global reset through driver code 0000 (see BCD logic coding page 1-13)

(4): Available only up 6 positions

(5): Model "3" only

(6): Option not available for type 4, 5, 8 and 9

(7): Option available only with type 0, 1, 8 and 9

(8): Polarity is not relevant to application for switches with TTL driver

(9) 7 to 12 positions are available only up to 8 GHz

\*For precisions see availability of options chart page 5-21



# SPnT up to 12.4 GHz - RAMSES Concept

## N - BNC - TNC

## **GENERAL SPECIFICATIONS**

## Type 2, 3, 4 and 5:

Latching models have a RESET pin which commands the reset of all positions. This command should be used before switching from one position to another. If not, two positions will be set at the same time.

Note: During the RESET operation the global current the nominal operating current multiplied by the number of positions.

## Type 8, 9:

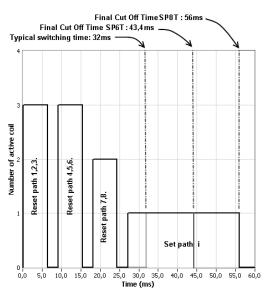
Latching models with AUTOMATIC RESET are available; these products have an internal SET/RESET circuit which automatically resets all the non-selected positions and sets the desired position. This option simplifies the use of latching switches by suppressing the RESET command in switching sequence.

An electronic circuit supplies successively groups of 2, 3 or 4 actuators, in order to limit the maximum current. The current with this option is the total current of 2, 3 or 4 reset coils in the same time (see table below).

Example: During the AUTOMATIC RESET operation, at 28 Vdc, 4 position switch has a temporary consumption of only 250 mA, during 40 ms maximum.

## SWITCHING SEQUENCE

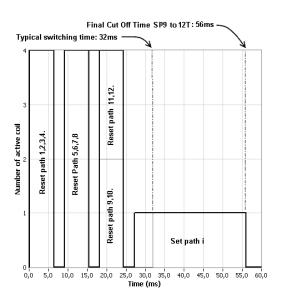
For SP6 to 8T



n = number of positions

	Operating Total Current At 23 ° C (mA) SPnT Latching						
Number 12 Volts 28 Volts							
of positions	Manual reset	Manual reset	Automatic reset				
3 to 4	320 x n	640	125 x n	250			
5 to 8	320 x n	960	125 x n	375			
9 to 12	320 x n	1280	125 x n	500			

For SP9 to 12T



Availability of options according to both type and number of positions

Туре	Numbers of positions	Available options
0 or 1	3 to 12	0 - 1 - 2 - 3 - 4 - 8
2 or 3	3 to 6	0 - 1 - 2 - 3 - 4
2 01 3	7 to 12	0 - 1 - 3 - 4
	3 to 6	0 - 2
4 or 5	7 to 12	Not available
8 or 9	3 to 12	0 - 2 - 8



# SPnT up to 12.4 GHz - RAMSES Concept

# N - BNC - TNC

# **GENERAL SPECIFICATIONS**

Operating mode		Normall	y open	Latc	hing	
Nominal operating voltage			12	28	12	28
(across operating temperature)		Vdc	(10.2 / 13)	[24 / 30]	(10.2 / 13)	(24 / 30)
Coil resistance (+/-10%)		Ω	47.5	275	See table on p	previous page
Nominal operating current at 23°C mA		mA	250	102		
Average power			See Power Rating Chart page 1-13			
		2.2 to 5.5 V	(TTL Option) /			
TTL input		High Level	3.5 to 5.5	V (BCD Option)	800µA max 5.	5 volts
				TTL Option) /		
		Low Level	0 to 1.5 V (BCD Option) 20µA max 0.8 volts			volts
Indicator rating			1 Watt / 30 Volts / 100 mA			
5			15 ms			
Switching time (Max)		ms	For automatic reset models: SP3T to SP6T => 40 ms			
			SP7T to SP12T => 50 ms			50 ms
	Non terminated SP3	to 6T (R573 serie)				
Life (Min)	Terminated SP3 to 6T	(R574 serie)	2 million cycles			
	SP7 to 12T (all model	s)				
Connectors			N - TNC - BNC			
Actuator terminals		Solder pins or male 25 pin D-Sub connector			or	
Operating temperature range	rature range		-40°C to +85°C			
Storage temperature range			-55°C to +85°C			
Vibration (MIL STD 202, metho	od 204D, cond.C)		10-2000	Hz , 10g	opera	iting
Shock (MIL STD 202, method 2	213B, cond.C)		50g / 1 ms,	1/2 sine	opera	iting

# **RF PERFORMANCES**

N - TNC - BNC Connector							
Number of positions	Frequency	range GHz	V.S.W.R. (max)	Insertion loss (max) dB	Isolation (min) dB	Impedance Ω	
		DC - 3	1.20	0.20	80		
3 to 6	6 DC - 12.4	DC - 12.4	3 - 8	1.35	0.35	70	
		8 - 12.4	1.50	0.50	60		
7 to 10	DC - 8	DC - 3	1.30	0.30	80	50	
7 10 10	DC - 8	3 - 8	1.50	0.50	70		
11 += 10	to 12 DC - 8	DC - 3	1.35	0.50	70		
11 to 12	DC - 8	3 - 8	1.70	1.00	60		

See page 5-25 for typical RF performances

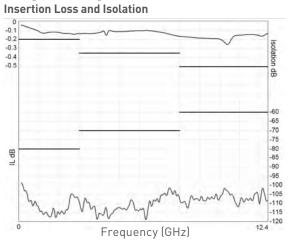


# SPnT up to 12.4 GHz - RAMSES Concept

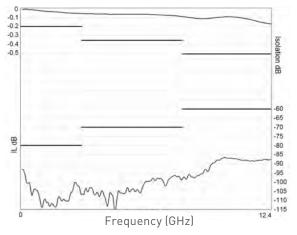
## N - BNC - TNC

## **R573 AND R574 TYPICAL RF PERFORMANCES**

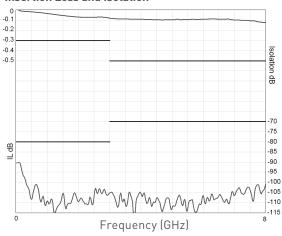
Example: SP6T N up to 12.4 GHz

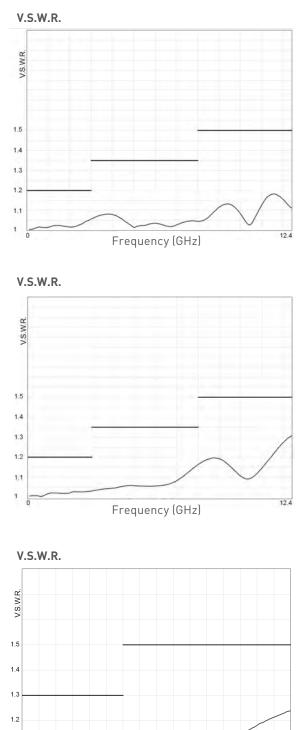


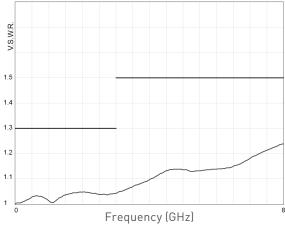




## Example: SP8T up to 8 GHz Insertion Loss and Isolation









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## SPnT up to 12.4 GHz - RAMSES Concept N - BNC - TNC

## **TYPICAL OUTLINE DRAWINGS**

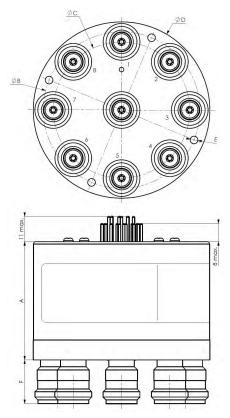
TERMINATED or NOT 3 to 12 positions

Turne	A max (mm)		
Туре	Solder Pins	D-Sub Connector	
Type 0 - 1 - 2 or 3 with option 0 - 1 - 3 or 4	56	66	
Type 0 - 1 - 2 or 3 with option 2 or 8 and	71	71	
Type 4 - 5 - 8 or 9 with option 0 - 1 - 2 or 8	/1		

Connectors	F max (mm)
Ν	18.8
BNC	11
TNC	11

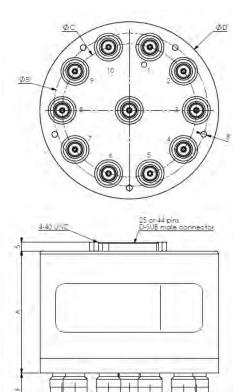
Number of positions	B diameter	C diameter	D diameter	Е
3 - 6	54	44.7	63.5	6 holes M4/60°
7 - 8	67.7	58.9	76.2	4 holes M4/90°
9 - 10	88.9	76.2	101.6	5 holes M4/72°
11 - 12	67.7	101.6	127	6 holes M4/60°

Model SP8T positions up to 8 GHz with solder pins



**RF CONNECTORS ALLOCATION** See on page 5-25 and 5-26

## Model SP10T positions up to 8 GHz D-Sub male connector





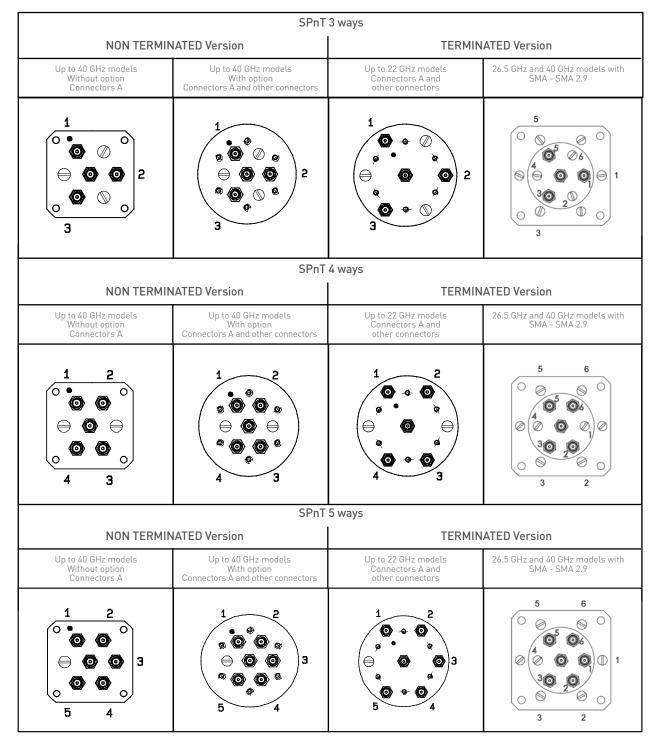
**RAMSES** 

# SPnT Terminated & non Terminated up to 40 GHz

## SMA - SMA 2.9 - QMA - DIN 1.6 / 5.6

## **RF CONNECTORS ALLOCATION FOR SPNT SERIES**

Connectors A: 1.6/5.6, QMA, SMA, SMA 2.9 Other Connectors: N, BNC, TNC



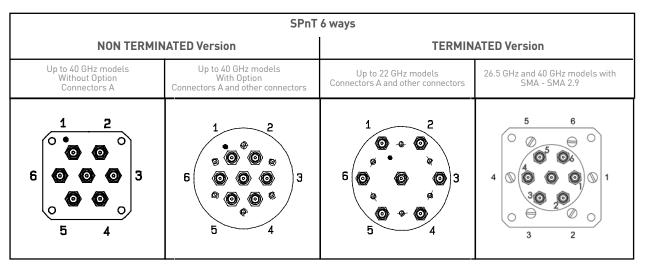


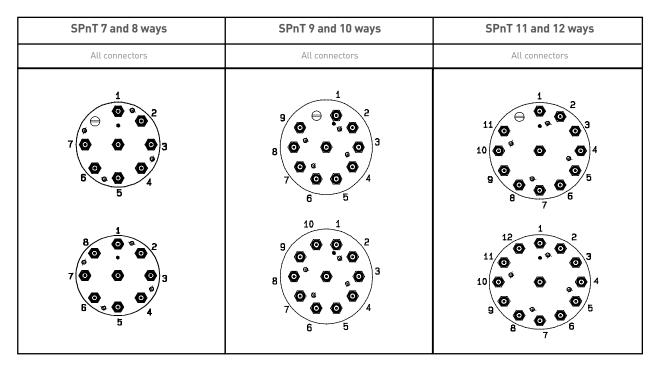
# SPnT Terminated & non Terminated up to 40 GHz

SMA – SMA 2.9 – QMA - DIN 1.6 / 5.6

## **RF CONNECTORS ALLOCATION (CONTINUED)**

Connectors A: 1.6/5.6, QMA, SMA, SMA 2.9 Other Connectors: N, BNC, TNC





## ACCESSORIES

A printed circuit board interface connector has been designed for easy mounting on terminals (must be ordered separately). Refer to page 5-27 for details.



## Our Most Important Connection is with You.™

## Accesories - RAMSES Concept

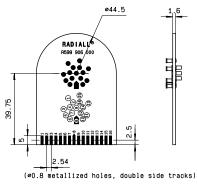
## N - BNC - TNC

## PRINTED CIRCUIT BOARD INTERFACE CONNECTOR

A printed circuit board interface connector (ordered separately) has been designed for easy mounting on terminals.

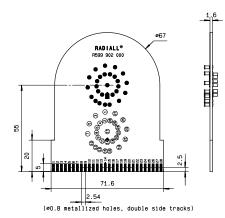
For SPnT model R573 and R574 series: Radiall part number: **R599 906 000 for 3 to 6 positions** 

## R599906000

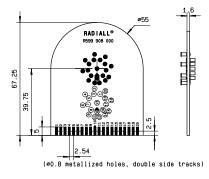


# R599 908 000 for 7 to 8 positions R599 900 000 for 9 to 10 positions R599 902 000 for 11 to 12 positions

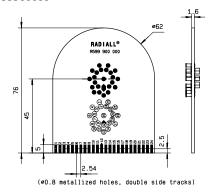
#### R599902000



#### R599908000



#### R599900000







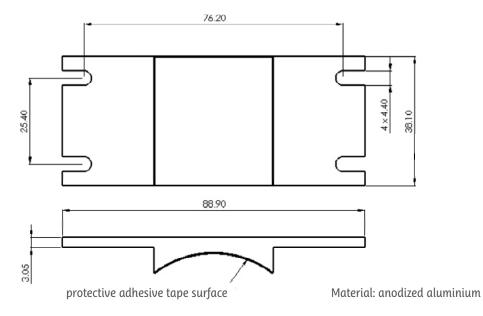
## **All Connectors**

## **MOUNTING BRACKET**

A metal bracket has been designed for an easy mechanical mounting of our SPnT switches for customer installation. These brackets must be ordered separately and assembled according to our recommended process on the following page.



## **MOUNTING BRACKET**





## **All Connectors**

## FOR MODELS WITH CONNECTORS SMA, QMA, SMA 2.9, DIN 1.6/5.6

Number of positions	Туре	Options	Model	Part number	
	All	2 & 8	R573 series R574 series		
3 to 6 positions	4, 5, 8, & 9	All		R599920000	
	All	All			
7.9.0 ===::::===	A11 A11	R573 series	R599920000		
7 & 8 positions	All	All All	R574 series	R599920000	
		A.11	R573 series	DE00001000	
9 & 10 positions	All	All	R574 series	R599921000	
11.0.10			A 11	R573 series	R599921000
11 & 12 positions	All	All	R574 series	K044421000	

## FOR MODELS WITH CONNECTORS N, TNC, BNC

Number of positions	Туре	Options	Model	Part number		
					R573 series	R599921000
3 to 6 positions	All	All	R574 series	K377721000		
	A 11	A 11	R573 series	Net Aveileble		
7 to 12 positions	All	All	R574 series	Not Available		

## Adhesive Bonding Process

1) Clean the can with alcohol (Isopropanol or Ethanol).

2) Remove the protective adhesive tape surface.

3) Glue the mounting bracket ONLY on the blue can and NOT on the RF body.

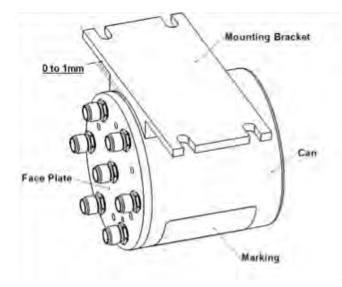
DO NOT glue mounting bracket on the marking (See drawing).

4) Firmly press the mounting bracket against the can, and maintain pressure for several seconds

(10 seconds min) to properly bond the unit

(See notes 1 & 2).

5) The switch can now be installed on your equipment with 4 screws (not included).





## **All Connectors**

**RAMSES SERIES** 

## MOUNTING SQUARE FLANGE

A square flange has been designed for easy mechanical mounting of our SPnT switches for customer installation. These flanges must be ordered separately (similar to the mounting bracket) and assembled according to our recommended process



# 

**Typical Outline Drawing** 

## Material: Aluminium with Cr3 passivation

Radiall part number	A (mm)	B (mm)	C (mm)	D (mm)	E (mm)
R599 308 000	57.15	45.75	27	2	9
R599 309 000	57.15	45.75	44.70	2	9
R599 310 000	63.45	53.45	27	2	9
R599 311 000	63.45	53.45	44.70	2	9
R599 312 000	63.45	53.45	44.70	2	9
R599 313 000	69.80	59.80	44.70	2	9
R599 314 000	74.60	64.60	55.88	2	9
R599 315 000	71.10	60.30	44.70	3	16.20

# FOR MODELS WITH CONNECTORS SMA, QMA, SMA2.9, 1.6/5.6

Number of positions	Туре	Options	Model	Part number
3 to 6 positions	All	All	R573 series	R599310000
				R599308000
			R574 series	R599311000
				R599309000
	All	All	R573 series	R599312000
7 to 8 positions			R574 series	
9 to 10 positions	All	All	R573 series	R599313000
			R574 series	
11 to 12 positions	All	All	R573 series	R599314000
			R574 series	

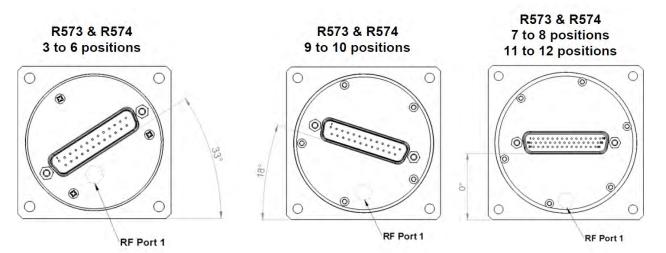
# FOR MODELS WITH CONNECTORS N, TNC, BNC

Number of positions	Туре	Options	Model	Part number
3 to 6 positions	All	All	R573 series	R599315000
			R574 series	



## **All Connectors**

## D-SUB CONNECTOR LOCATION

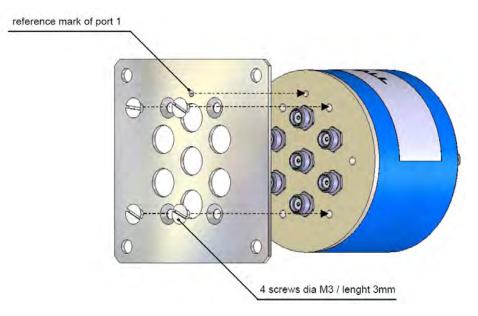


## **ASSEMBLY INSTRUCTIONS**

1) Assemble the square flange on the RF body of the switch as the following drawing below.

ATTENTION: Don't forget to correctly position the reference in line with the mark for port 1.

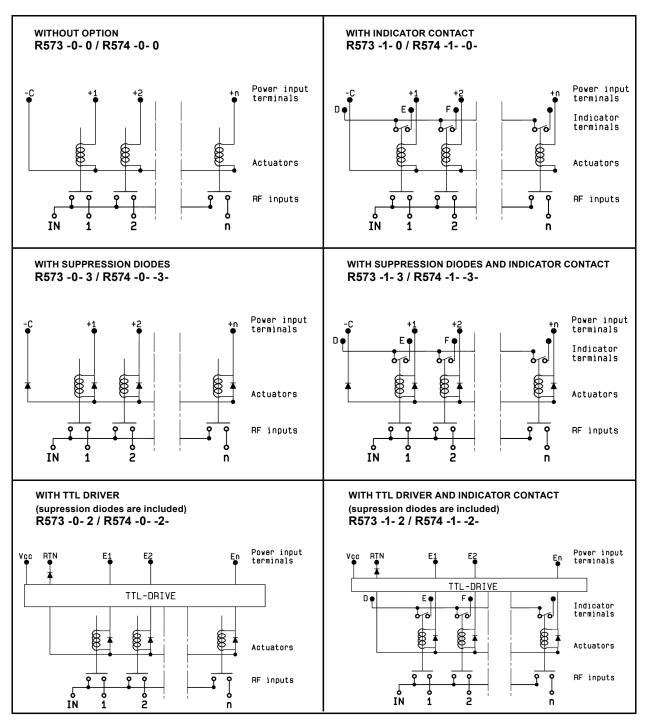
2) Tighten the 4 screws (delivered with the square flange).





# COAXIAL SPnT - Electrical Schematics R573 - R574 Series

## NORMALLY OPEN

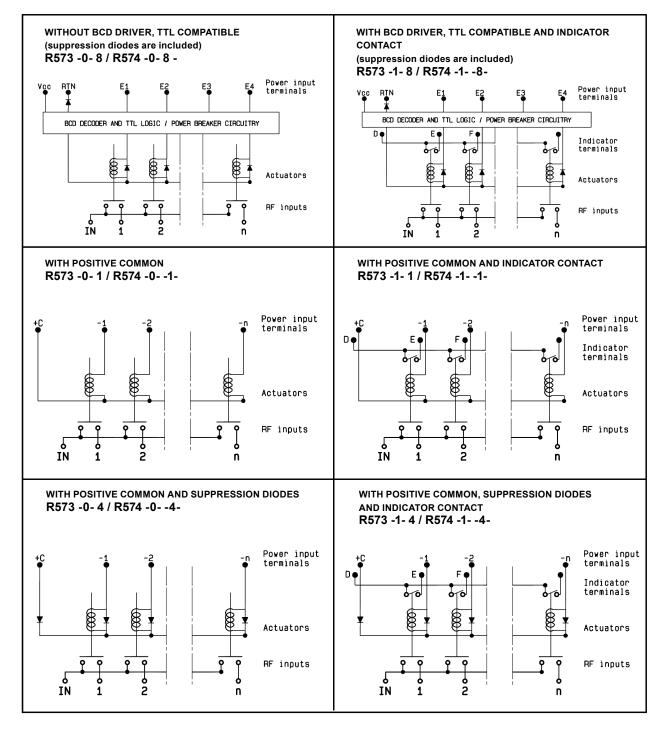




# COAXIAL SPnT - Electrical Schematics

R573 - R574 Series

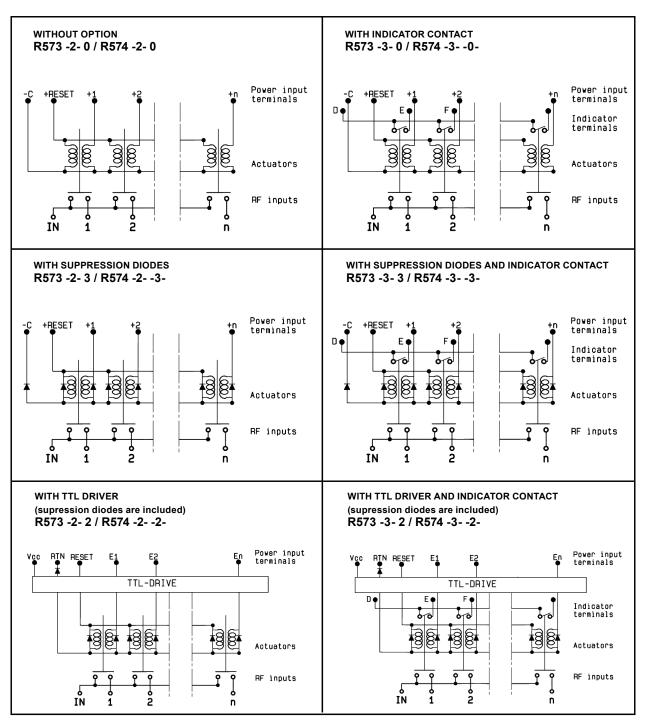
## NORMALLY OPEN



# COAXIAL SPnT - Electrical Schematics R573 - R574 Series

## LATCHING

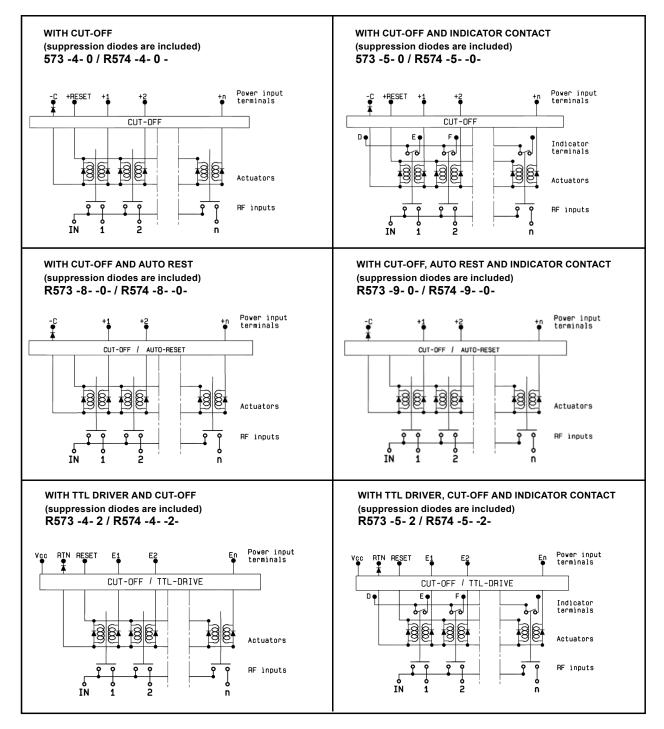
**RAMSES SERIE** 





## COAXIAL SPnT - Electrical Schematics | R573 - R574 Series

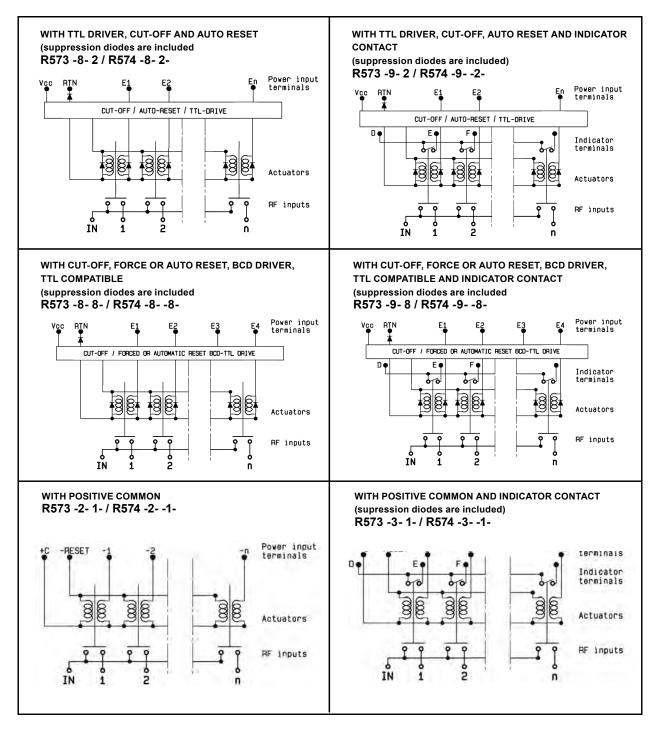
## LATCHING



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# COAXIAL SPnT - Electrical Schematics R573 - R574 Series

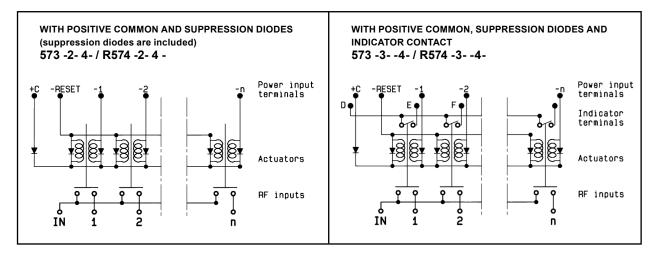
# LATCHING





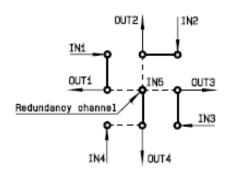
# COAXIAL SPnT - Electrical Schematics R573 - R574 Series

# LATCHING



Optional Features for SPnT (see additional examples on page 5-54)

Examples of dedicated application options



4P3T with redundancy channel on Out 4 In 1 to Out 1, In2 to Out 2, In 3 to Out 3

Go online for data sheets & assembly instructions.



A Custom Matrix Switch (4P3T) with 4 Input ports and 4 Output ports configured for 3 transmission systems and one redundancy channel (N+1: N type). This product can be used also as a SP4T Terminated with low external VSWR or medium power terminations.



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Radiall:

R573103430 R573F03400 R573F03420 R573F13600 R573F33325 R573J02420