SMA - SMA 2.9 - QMA - DIN 1.6 / 5.6



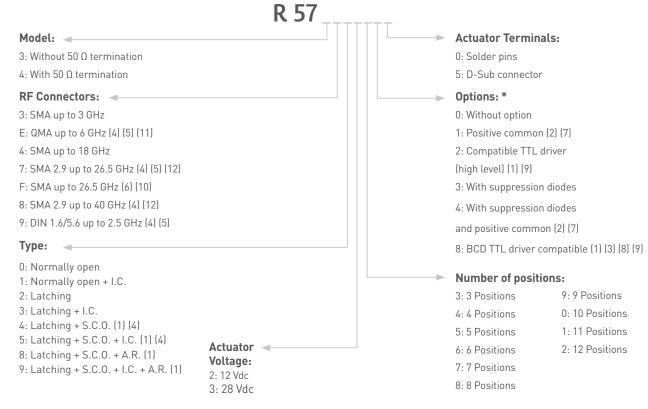
Radiall's R573 & R574 multithrow coaxial switches are offered in many configurations (over 40,000 possible combinations) including Terminated and non Terminated options. Radiall offers reliable products, with shorter delivery times and competitive pricing. Excellent typical RF performance make RAMSES 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 quarantees the specified level of RF performance

(12) connector SMA 2.9 is equivalent to "K connector®", registered trademark of Apritsu

*For precisions see availabilty of options chart page 5-9



SMA - SMA 2.9 - QMA - DIN 1.6 / 5.6

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.

Type 8, 9:

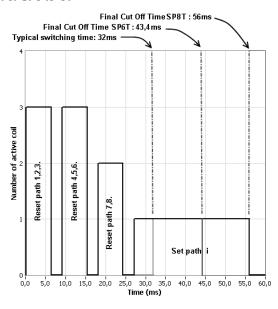
Latching models with AUTOMATIC RESET are available; these products have an internal SET/RESET circuit which automatically resets all the non-selected positions and sets the desired position. This option simplifies the use of latching switches by suppressing the RESET command in switching sequence.

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).

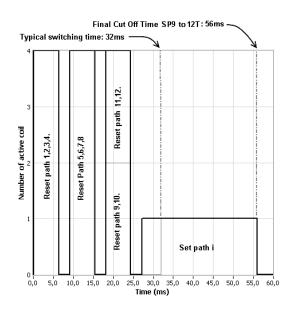
Example: During the AUTOMATIC RESET operation, at 28 Vdc, 4 position switch has a temporary consumption of only 250 mA, during 40 ms maximum.

SWITCHING SEQUENCE

For SP6 to 8T



For SP9 to 12T



n = number of positions

Operating Total Current At 23 ° C (mA) SPnT Latching						
Number	12 \	/olts	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		

Availability of options according to both type and number of positions

Type	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
2013	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



SMA - SMA 2.9 - QMA - DIN 1.6 / 5.6

GENERAL SPECIFICATIONS

0	peratin	g mode	Normally open		Latching	
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 pa	
Average power				See Power Rating	Chart page 1-13	
		High Level		2.2 to 5.5 V (TTL Option 3.5 to 5.5 V (BCD Option 3.5 V (BCD	1.1	lts
TTL input		Low Level	0 to 0.8 V (TTL Option) / 20μA max 0.8 volts 0 to 1.5 V (BCD Option)			
Indicator rating				1 Watt / 30 Vo	olts / 100 mA	
Switching time (Max)		ms	15 ms For automatic reset models: SP3T to SP6T => 40 ms SP7T to SP12T => 50 ms			
NI.	NI	terminated SP3 to 6T (R573 serie)	SMA	SMA - QMA SMA 2.9 - 1.6/5		- 1.6/5.6
Life (Min)	INON	terminated 5P3 to 61 (R573 Serie)	5 million cycles 2 million cycles		n 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		DIN 1.6/5.6	-25°C to +70°C			
range		SMA - SMA 2.9 - QMA	-40°C to +85°C			
		DIN 1.6/5.6		-40°C t	o +85°C	
Storage temperature r	ange	SMA - SMA 2.9 - QMA		-55°C to	+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 Con	nector		
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	
	DC - 3	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	
7 to 8	DC - 22	12.4 - 16	1.50	0.55	60	
	16 - 18	1.60	0.60	60		
		18 - 22	1.70	0.70	60	50
		DC - 3	1.20	0.20	80	50
		3 - 8	1.30	0.30	70	
0 1 - 10	DC - 3	8 - 12.4	1.40	0.40	60	
9 to 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	
	200	3 - 8	1.40	0.40	70	
11 to 12	DC - 3 DC - 18	8 - 12.4	1.60	0.60	60	
	DC - 18	12.4 - 15	1.70	0.70	60	
		15 - 18	1.80	0.80	50	



SMA - SMA 2.9 - QMA - DIN 1.6 / 5.6

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
3 to 6 DC - 26.5 DC - 40	DC - 6	1.30	0.20	70		
		6 - 12.4	1.40	0.40	60	50
		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 25	DC - 1	1.30	0.20	80	75	
3 to 6 DC - 2.5	1 - 2.5	1.40	0.30	70	75		

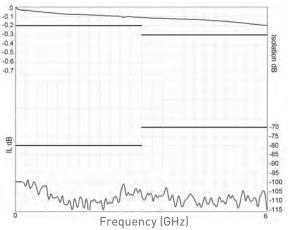
QMA Connector							
Number of positions	Frequency	Range GHz	V.S.W.R. (max)	Insertion Loss (max) dB	Isolation (min) dB	Impedance Ω	
2 +- /	DC /	DC - 3	1.20	0.20	80	EO	
3 to 6	DC - 6	3 - 6	1.30	0.30	70	50	

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

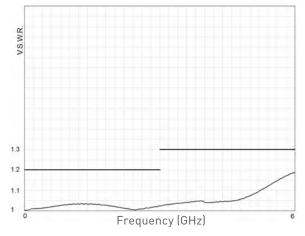
R573 AND R574 TYPICAL RF PERFORMANCES

Example: SP6T QMA up to 6 GHz





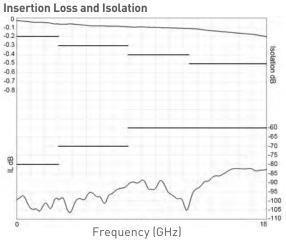
V.S.W.R.



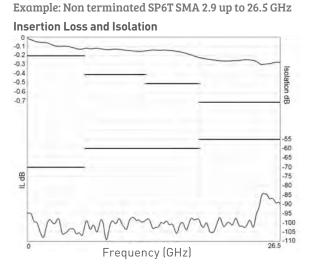


SMA - SMA 2.9 - QMA - DIN 1.6 / 5.6

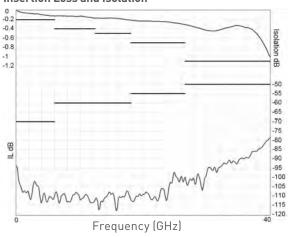
Example: Non terminated SP6T SMA up to 18 GHz



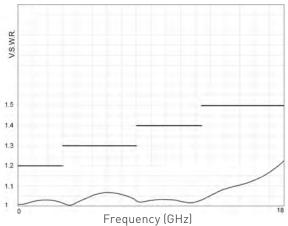
Trequency (OTIZ)



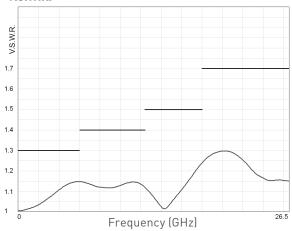
Example: Non terminated SP6T SMA 2.9 up to 40 GHz Insertion Loss and Isolation



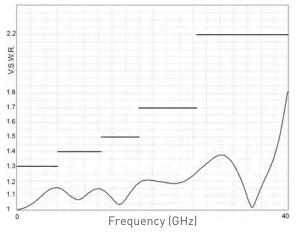
V.S.W.R.



V.S.W.R.



V.S.W.R.

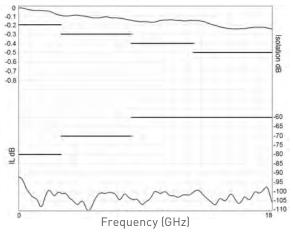




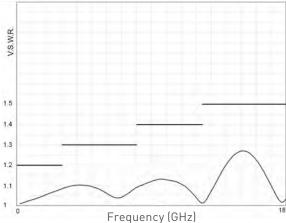
SMA - SMA 2.9 - QMA - DIN 1.6 / 5.6

Example: Terminated SP6T SMA up to 18 GHz

Insertion Loss and Isolation

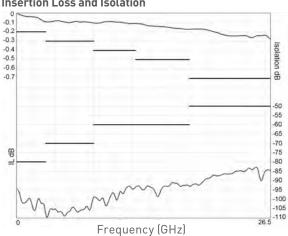


V.S.W.R.

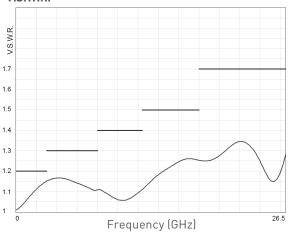


Example: Terminated SP6T SMA up to 26.5 GHz

Insertion Loss and Isolation

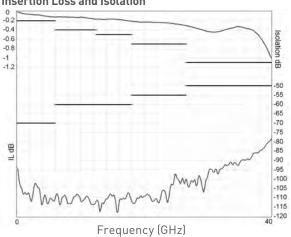


V.S.W.R.

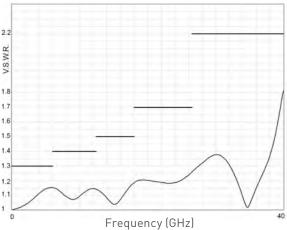


Example: Terminated SP6T SMA 2.9 up to 40 GHz

Insertion Loss and Isolation



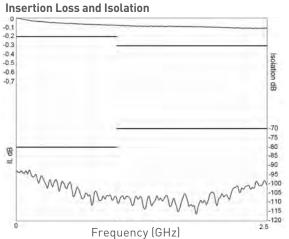
V.S.W.R.

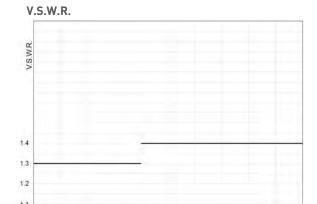




SMA - SMA 2.9 - QMA - DIN 1.6 / 5.6

Example: Non terminated SP6T 1.6/5.6 up to 2.5 GHz

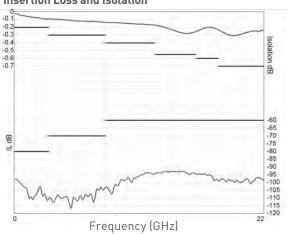


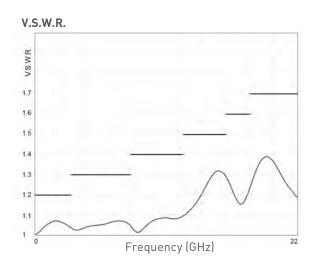


Frequency (GHz)

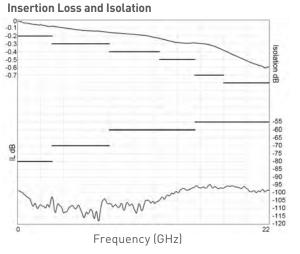
Example: SP8T SMA up to 22 GHz

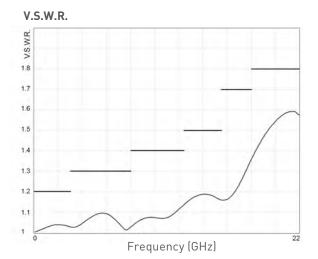






Example: SP10T SMA up to 22 GHz



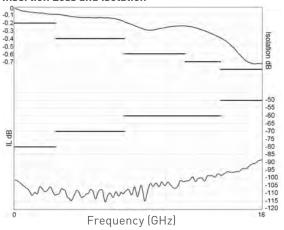


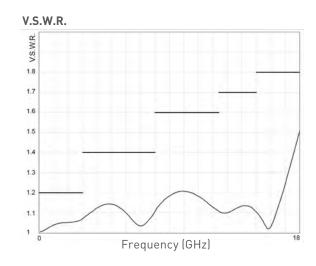


SMA - SMA 2.9 - QMA - DIN 1.6 / 5.6

Example: SP12T SMA up to 18 GHz

Insertion Loss and Isolation



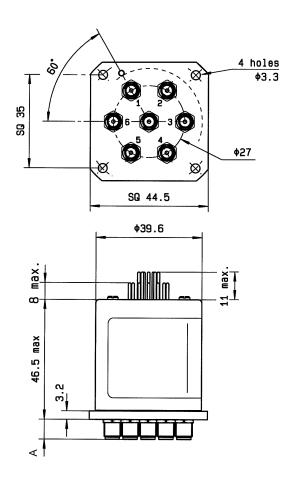


TYPICAL OUTLINE DRAWINGS

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



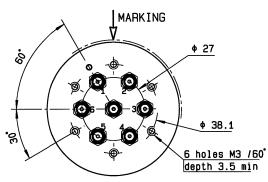


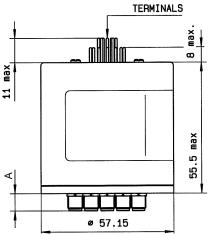
SMA - SMA 2.9 - QMA - DIN 1.6 / 5.6

TYPICAL OUTLINE DRAWINGS

NON TERMINATED 3 to 6 positions (continued)

Solder pin model



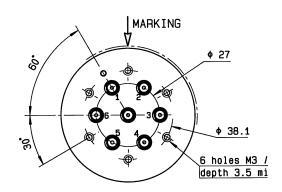


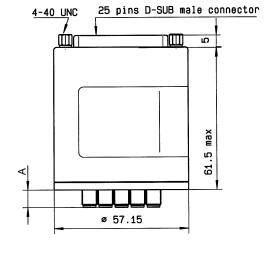
	Type 0 or 1 with option 2 or 8
Solder pins	Type 2 or 3 with option 2 - 3 - 4 or 8
	Type 4 - 5 - 8 or 9 with option 0 - 2 or 8

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

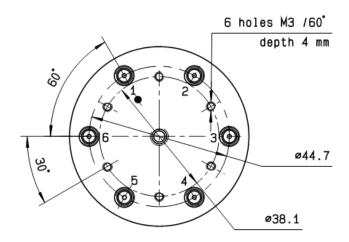


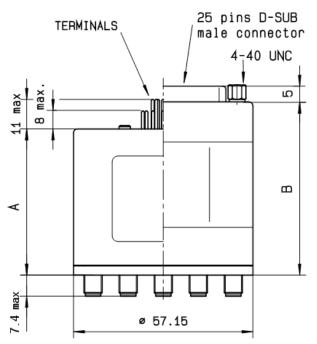


SMA - SMA 2.9 - QMA - DIN 1.6 / 5.6

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

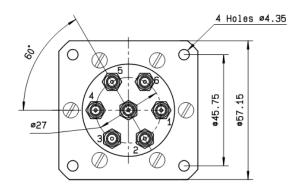


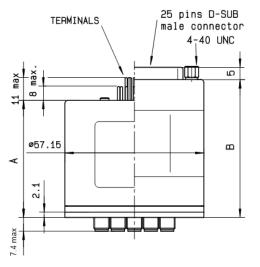
SMA - SMA 2.9 - QMA - DIN 1.6 / 5.6

TYPICAL OUTLINE DRAWINGS

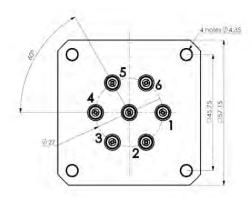
TERMINATED 3 to 6 positions 26.5 GHz & 40 GHz

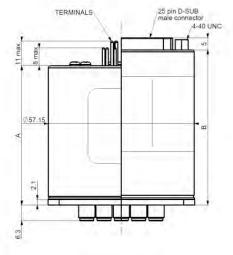
26.5 GHz model





40 GHz model





	А	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



SMA - SMA 2.9 - QMA - DIN 1.6 / 5.6

TYPICAL OUTLINE DRAWINGS

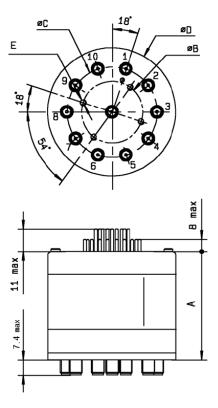
TERMINATED or NON TERMINATED 7 to 12 positions

Time	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	Е
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	αεριπ 4πππ

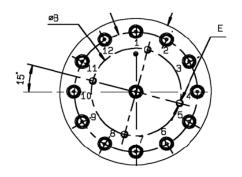
10 position model

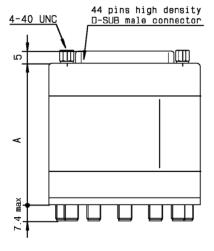
Terminated up to 18 GHz with solder pins



12 position model

Terminated up to 12.4 GHz with D-Sub







N - BNC - TNC



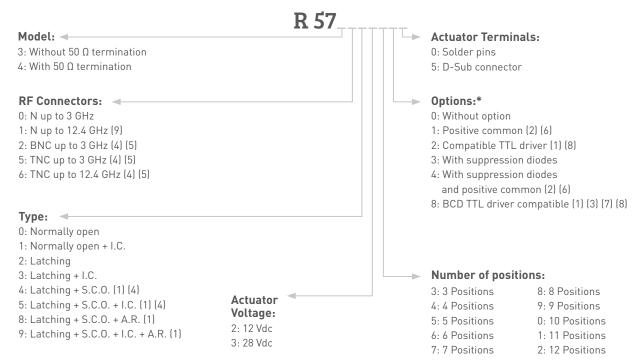
Radiall's R573 & R574 multithrow coaxial switches are offered in many configurations (over 40,000 possible combinations) including Terminated and non Terminated options. Radiall offers reliable products, with shorter delivery times and competitive pricing. Excellent typical RF performance make RAMSES 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:

 $\mbox{R573103600}$ is a SP6T N up to 12.4 GHz, Normally Open, 28 Vdc, and solder pins.

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 1-13)
- (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 availabilty of options chart page 5-21



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:

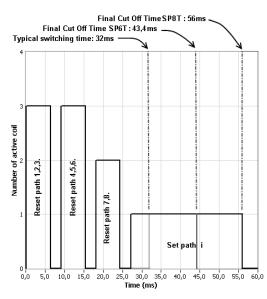
Latching models with AUTOMATIC RESET are available; these products have an internal SET/RESET circuit which automatically resets all the non-selected positions and sets the desired position. This option simplifies the use of latching switches by suppressing the RESET command in switching sequence.

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

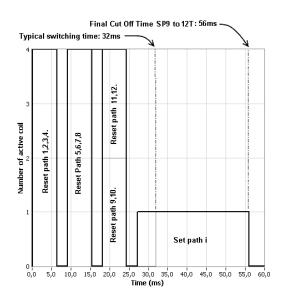
For SP6 to 8T



n = number of positions

Operating Total Current At 23 ° C (mA) SPnT Latching					
Number 12 Volts 28 Volts					
of	Manual	Manual Automatic		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



N - BNC - TNC

GENERAL SPECIFICATIONS

Operating mode		Normall	Normally open		Latching	
Nominal operating voltage		erating voltage		28	12	28
(across operating temperatur	e)	vac	(10.2 / 13)	(24/30)	(10.2 / 13)	[24 / 30]
Coil resistance (+/-10%)		Ω	47.5	275	See table on previous	
Nominal operating current at	23°C	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
				FTL Option) /		
		Low Level	0 to 1.5 \	/ (BCD Option)	20µA max 0.8	3 volts
Indicator rating			1 Watt / 30 Volts / 100 mA			
			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 models	s)				
Connectors			N - TNC - BNC			
Actuator terminals		Solder pins or male 25 pin D-Sub connector		or		
Operating temperature range		-40°C to +85°C				
Storage temperature range				-55°C to +85°C		
Vibration (MIL STD 202, method	od 204D, cond.C)		10-2000	Hz , 10g	opera	ating
Shock (MIL STD 202, method	213B, cond.C)		50g / 1 ms,	1/2 sine	opera	ating

RF PERFORMANCES

			N - TNC - B	NC 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	3 to 6 DC - 12.4	3 - 8	1.35	0.35	70	
	8 - 12.4	1.50	0.50	60		
7 - 10	DC 0	DC - 3	1.30	0.30	80	50
7 to 10	DC - 8	3 - 8	1.50	0.50	70	
11 +- 10	DC 0	DC - 3	1.35	0.50	70	
11 to 12 DC - 8	3 - 8	1.70	1.00	60		

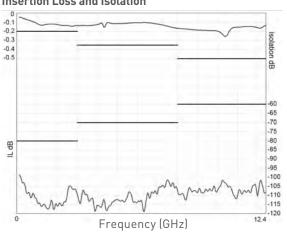
See page 5-25 for typical RF performances



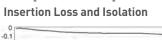
N - BNC - TNC

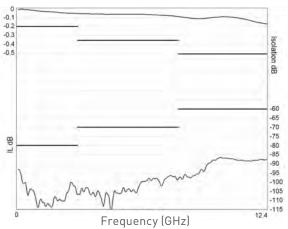
R573 AND R574 TYPICAL RF PERFORMANCES

Example: SP6T N up to 12.4 GHz Insertion Loss and Isolation

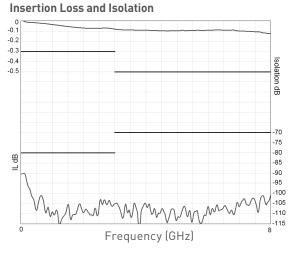


Example: SP6T TNC up to 12.4 GHz

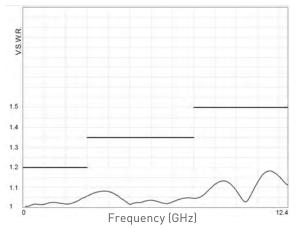




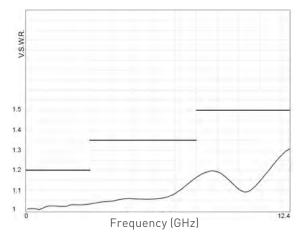
Example: SP8T up to 8 GHz



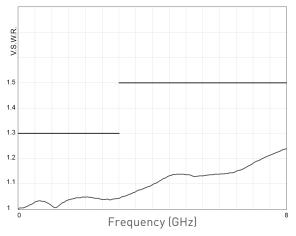
V.S.W.R.



V.S.W.R.



V.S.W.R.





N - BNC - TNC

TYPICAL OUTLINE DRAWINGS

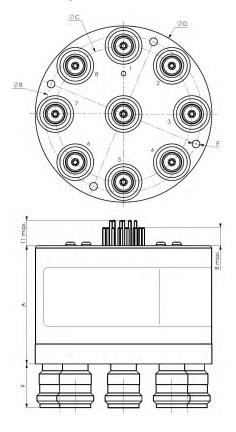
TERMINATED or NOT 3 to 12 positions

Type	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	/		

Connectors	F max (mm)	
N	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°

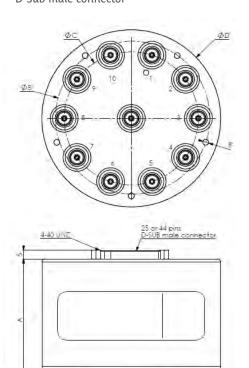
Model SP8T positions up to 8 GHz with solder pins



RF CONNECTORS ALLOCATION

See on page 5-25 and 5-26

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





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	3 ways	
NON TERMIN	IATED Version		ATED Version
Up to 40 GHz models Without option Connectors A	Up to 40 GHz models With option Connectors A and other connectors	Up to 22 GHz models Connectors A and other connectors	26.5 GHz and 40 GHz models with SMA - SMA 2.9
			5 0 0 0 0 0 0 0 0 0 0 0 0 0
	SPnT	4 ways	
NON TERMIN	IATED Version	TERMIN	ATED Version
Up to 40 GHz models Without option Connectors A	Up to 40 GHz models With option Connectors A and other connectors	Up to 22 GHz models Connectors A and other connectors	26.5 GHz and 40 GHz models with SMA - SMA 2.9
1 2			5 6
	SPnT	5 ways	
NON TERMIN	IATED Version	TERMINATED Version	
Up to 40 GHz models Without option Connectors A	Up to 40 GHz models With option Connectors A and other connectors	Up to 22 GHz models Connectors A and other connectors	26.5 GHz and 40 GHz models with SMA - SMA 2.9
1 2 0 0 0 0 0 0 5 4			5 6



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

SPnT 6 ways				
NON TERMIN	IATED Version	TERMINATED Version		
Up to 40 GHz models Without Option Connectors A	Without Option With Option Op 10 22 GPZ Models With Option		26.5 GHz and 40 GHz models with SMA - SMA 2.9	
1 2 6 6 6 6 3 5 4			5 6 0 0 0 0 1 3 0 0 0 1 3 2	

SPnT 7 and 8 ways	SPnT 9 and 10 ways	SPnT 11 and 12 ways
All connectors	All connectors	All connectors

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.



N - BNC - TNC

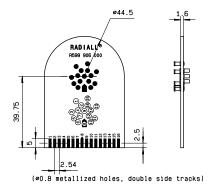
PRINTED CIRCUIT BOARD INTERFACE CONNECTOR

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

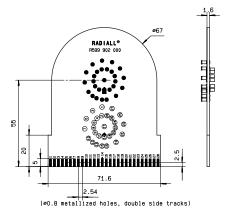
For SPnT model R573 and R574 series: Radiall part number: **R599 906 000 for 3 to 6 positions**

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

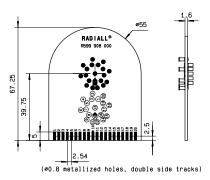
R599906000



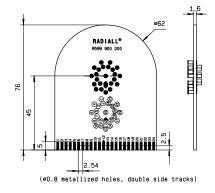
R599902000



R599908000



R599900000



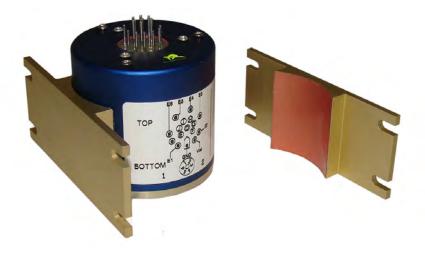




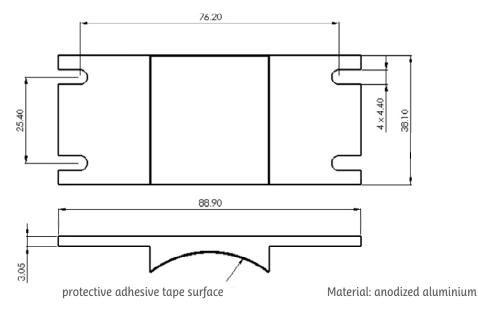
All Connectors

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

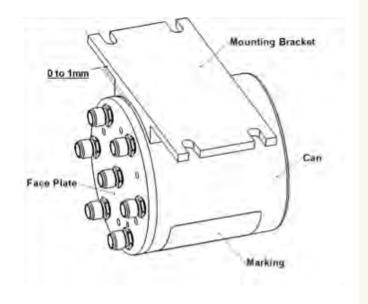
Number of positions	Туре	Options	Model	Part number	
	All	2 & 8	R573 series		
3 to 6 positions	4, 5, 8, & 9	All	R573 Series	R599920000	
	All	All	R574 series		
7 0 0:	All	All	R573 series	DE0000000	
7 & 8 positions			R574 series	R599920000	
9 & 10 positions	All	All	R573 series	DE00004000	
			R574 series	R599921000	
11 & 12 positions	All	All	R573 series	R599921000	
			R574 series	R3777Z1000	

FOR MODELS WITH CONNECTORS N, TNC, BNC

Number of positions	Туре	Options	Model	Part number	
2 ** /:*:	A 11	All	R573 series	R599921000	
3 to 6 positions	All	All	R574 series		
7 to 12 positions	All	All	R573 series	NI - L A II - L I -	
			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).





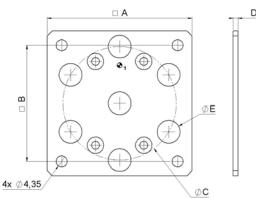
All Connectors

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
	All	All	R573 series	R599310000
2 to / positions				R599308000
3 to 6 positions			R574 series	R599311000
				R599309000
7 to 0iti	All	All	R573 series	R599312000
7 to 8 positions			R574 series	
0 to 10 nonitions	All	All	R573 series	R599313000
9 to 10 positions			R574 series	
11 to 12 positions	All	All	R573 series	DE0021/000
			R574 series	R599314000

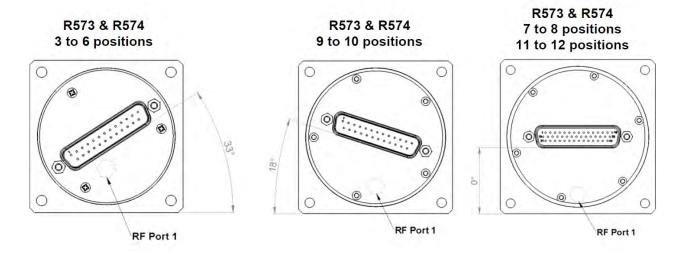
FOR MODELS WITH CONNECTORS N, TNC, BNC

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



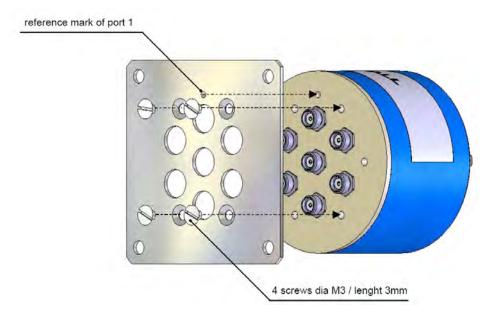
All Connectors

D-SUB CONNECTOR LOCATION



ASSEMBLY INSTRUCTIONS

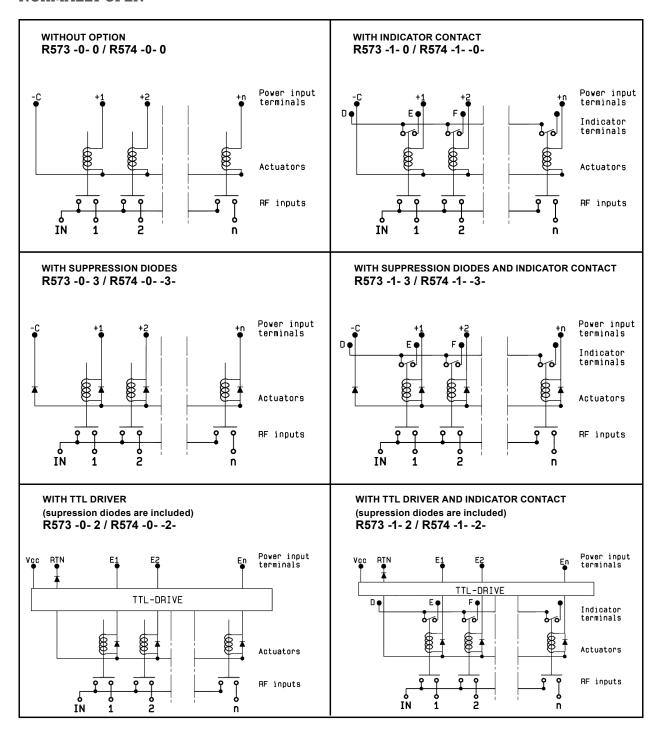
- 1) Assemble the square flange on the RF body of the switch as the following drawing below. ATTENTION: Don't forget to correctly position the reference in line with the mark for port 1.
- 2) Tighten the 4 screws (delivered with the square flange).





R573 - R574 Series

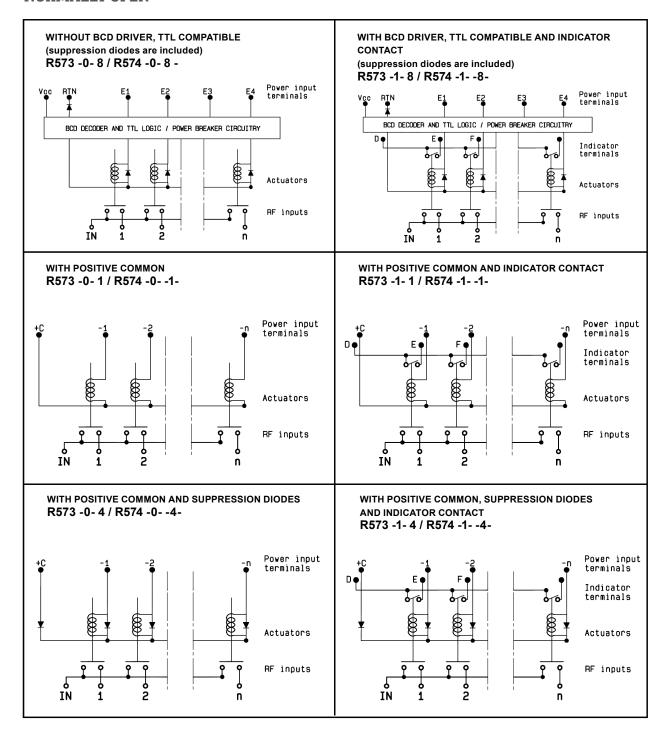
NORMALLY OPEN





R573 - R574 Series

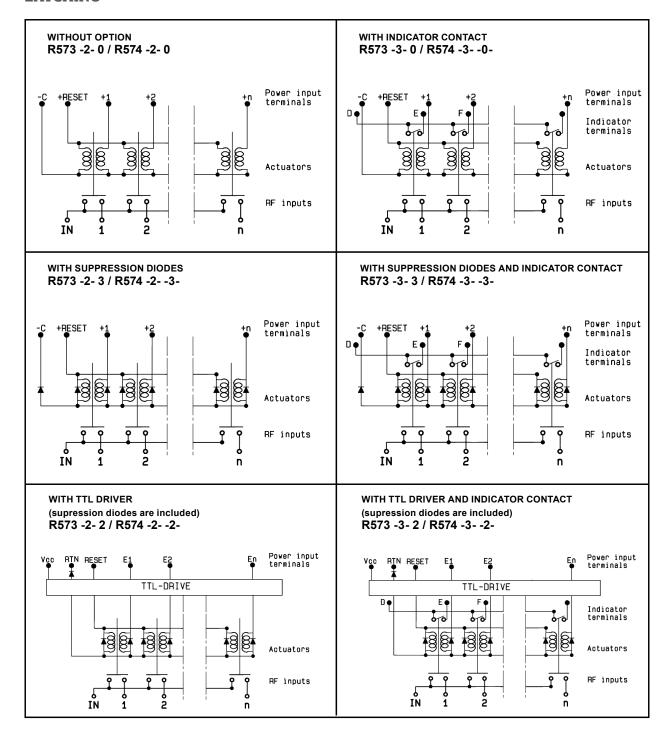
NORMALLY OPEN





R573 - R574 Series

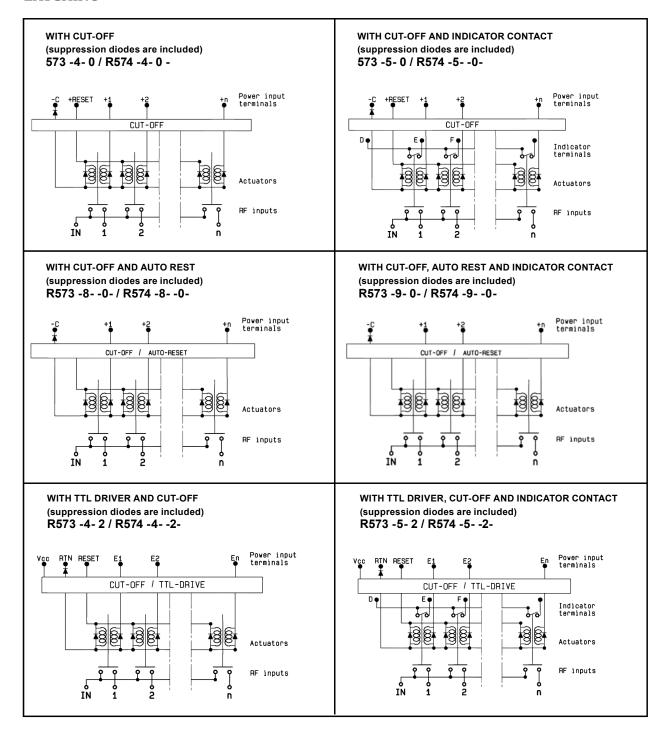
LATCHING





R573 - R574 Series

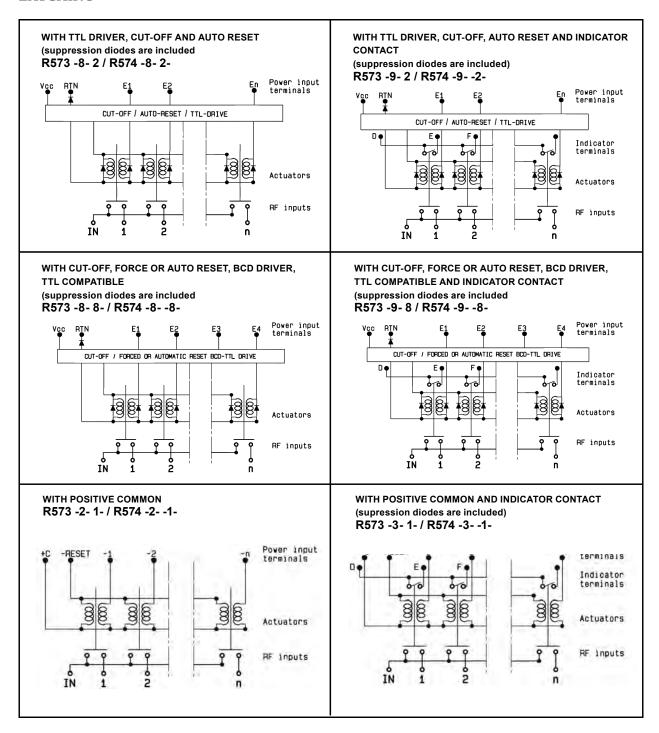
LATCHING





R573 - R574 Series

LATCHING





Go online for data sheets & assembly instructions.

Power input terminals

terminals

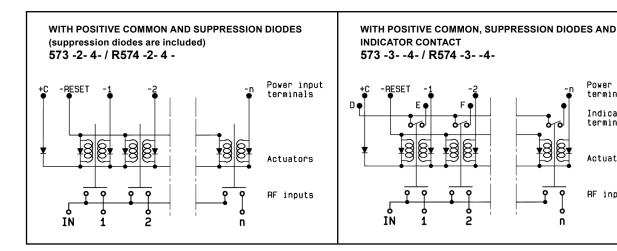
Actuators

RF inputs

COAXIAL SPnT - Electrical Schematics

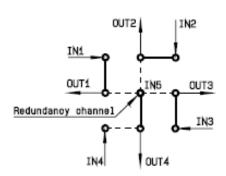
R573 - R574 Series

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



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

