



Radiall Navigator™ is a tool designed to assist our partners and customers that provides instant access to the right information at the right moment. This tool is intended to make sharing information about Radiall products as easy as possible in one single document.

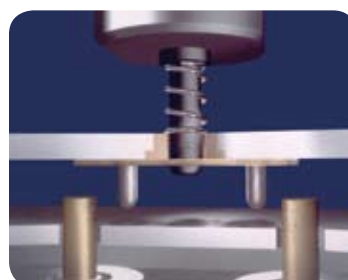
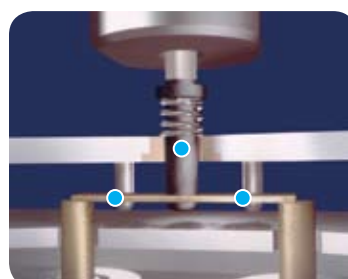
With this in mind, we have created Radiall Navigator as a supplemental guide to information available in our catalogs and on our website (www.radiall.com). We recognize that time is a very limited and valuable asset. We are confident that Radiall Navigator will help users understand our products, terminologies, and references better.

RADIALL ADVANTAGE

RAMSES Concept

The **RA**diall **MO**dular **S**ystem for **E**lectromechanical **S**witches (RAMSES) is a patented technology that enables microwave coaxial switches to be produced with a typical operating life of ten million cycles without a decrease in contact resistance reliability over time. Most competitive products can only achieve one million cycles. In addition, the unique internal construction makes the switches modular, which reduces the cost and lead time.

PREVIOUS DESIGN: 1,000,000 actuations



● Friction

RAMSES CONCEPT: 10,000,000 actuations

**Self aligned
small size pusher**

Low insertion loss

High level of power

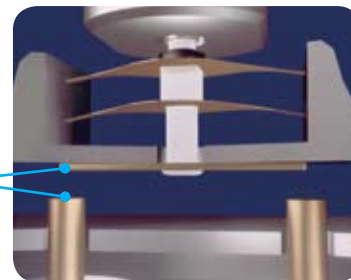
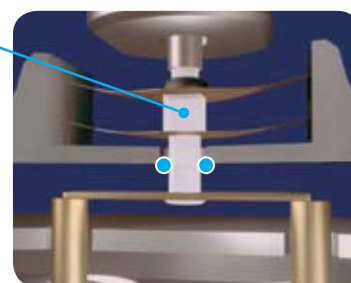
Without guide pins

No friction, no dust

Long life

RF contact improved

Low contact resistance



● No friction



AEROSPACE



AUTOMOTIVE



DEFENSE



INDUSTRIAL



INSTRUMENTATION



MEDICAL



SPACE



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This information is intended as a guide only. To ensure a continuing policy of product improvement, Radiall reserves the right to modify its specifications without prior notification.

DTM003TE - 2011 February

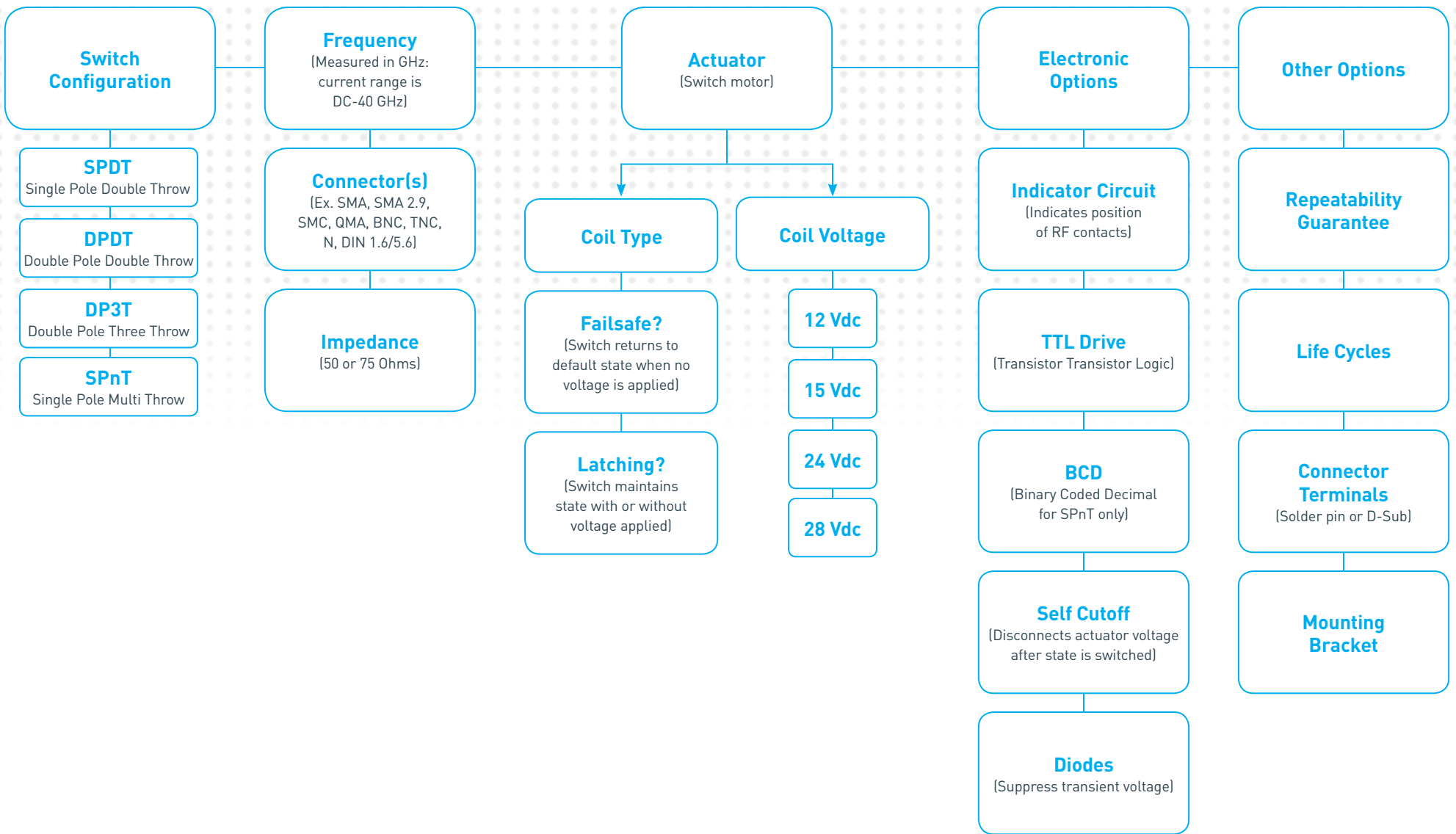
Coaxial Switches



www.radiall.com

RADIALL
The next conneXion

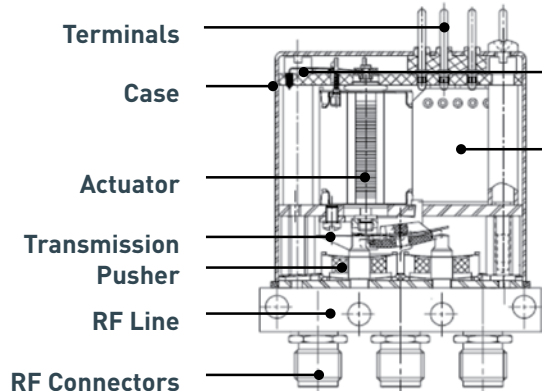
RADIALL
The next conneXion



Family	Series	RF Type (switch config.)	Freq. GHz (Max.)	Connectors		Actuator		Electronic Options				RF Terminated	Repeatability Guarantee	Life Cycles (Millions)	
				Type	# of Ports (# of ways refers to SPnT Only)	Type	Voltage (VDC)	Indicator Circuit	TTL Drive	Self Cutoff	Diodes				
 RAMSES	R57X	SPnT	40	SMA 2.9	3 - 6 ways	Normally open/latching	12/28	Yes	Yes	Yes if latching	Yes	No	No	2	
		SPnT	26.5	SMA	3 - 6 ways	Normally open/latching	12/28	Yes	Yes	Yes if latching	Yes	N/Y (Internal loads)	No	5 if non ZC 2 if ZC	
		SPnT				Normally open/latching	12/28			Yes if latching					
		SPnT	18	SMA	7 - 10 ways	Normally open/latching	12/28	Yes	Yes	Yes if latching	Yes	N/Y (Internal loads)	No	2	
		SPnT	12.4	SMA	11 - 12 ways	Normally open/latching	12/28	Yes	Yes	Yes if latching	Yes		No	2	
		SPnT	6	QMA	3 - 6 ways	Normally open/latching	12/28	Yes	Yes	Yes if latching	Yes	No	No	2	
		SPnT	2.5	DIN 1.6/5.6*	3 - 6 ways	Normally open/latching	12/28	Yes	Yes	Yes if latching	Yes	No	No	2	
	R570	SPDT	40	SMA 2.9	3 ports	Failsafe/latching	12/28	Yes	Yes	Yes	Yes	No	No	10	
		SPDT	26.5	SMA	3 ports	Failsafe/latching	12/28	Yes	Yes	Yes	Yes	No	No	10	
		SPDT	6	QMA	3 ports	Failsafe/latching	12/28	Yes	Yes	Yes	Yes	No	No	10	
		SPDT	2.5	DIN 1.6/5.6*	3 ports	Failsafe/latching	12/28	Yes	Yes	Yes	Yes	No	No	10	
		SPDT	12.4	N	3 ports	Failsafe/latching	12/28	Yes	Yes	Yes	Yes	No	No	10	
		SPDT	18	TNC	3 ports	Failsafe/latching	12/28	Yes	Yes	Yes	Yes	No	No	10	
		SPDT	3	BNC	3 ports	Failsafe/latching	12/28	Yes	Yes	Yes	Yes	No	No	10	
	R572	SPDT	40	SMA 2.9	3 ports	Failsafe/latching	12/28	Yes	No	No	No	No	No	2.5	
		SPDT	26	SMA	3 ports	Failsafe/latching	12/28	Yes	No	No	No	No	No	2.5	
		SPDT	6	QMA	3 ports	Failsafe/latching	12/28	Yes	No	No	No	No	No	2.5	
	R577	DPDT	40	SMA 2.9	4 ports	Failsafe/latching	12/28	Yes	Yes	Yes	Yes	No	No	10	
		DPDT	26.5	SMA	4 ports	Failsafe/latching	12/28	Yes	Yes	Yes	Yes	No	No	10	
		DPDT	6	QMA	4 ports	Failsafe/latching	12/28	Yes	Yes	Yes	Yes	No	No	10	
		DPDT	2.5	DIN 1.6/5.6*	4 ports	Failsafe/latching	12/28	Yes	Yes	Yes	Yes	No	No	10	
		DPDT	12.4	N	4 ports	Failsafe/latching	12/28	Yes	Yes	Yes	Yes	No	No	10	
		DPDT	12.4	TNC	4 ports	Failsafe/latching	12/28	Yes	Yes	Yes	Yes	No	No	10	
		DPDT	3	BNC	4 ports	Failsafe/latching	12/28	Yes	Yes	Yes	Yes	No	No	10	
	R585	SPDT ZC (ZC = terminated)	26.5	SMA	3 ports	Failsafe/latching	12/28	Yes	Yes	Yes	Yes	Yes	Yes (2 internal loads)	No	2
		5 ports			Failsafe/latching	12/28	Yes (2 external loads)								
		DP3T	26.5	SMA	5 ports	Failsafe/latching	12/28	Yes	Yes	Yes	Yes	No	No	10	
		BYPASS	26.5	SMA	4 ports	Failsafe/latching	12/28	Yes	Yes	Yes	Yes	Yes (1 external load)	No	2	
SUBMINIATURE	R591	SPnT	26.5	SMA	4 - 6 ways	Normally open/latching	12/28	No	Yes	No	Yes	No	No	10	
		SPnT	6	QMA	4 - 6 ways	Normally open/latching	12/28	No	Yes	No	Yes	No	No	10	
 PLATINUM	R593	DPDT	26.5	SMA	N/A	Latching	24	Yes	Yes	Yes	Yes	No	0.03 dB	10	
		DPDT	40	SMA 2.9	N/A	Latching	24	Yes	Yes	Yes	Yes	No	0.03 dB	5	
	R594	SPnT	26.5	SMA	4 - 6 ways	Latching	24	Yes	Yes	Yes	Yes	Yes (Internal loads)	0.03 dB	10	
		SPnT	40	SMA 2.9	4 - 6 ways	Latching	24	Yes	Yes	Yes	Yes	Yes (Internal loads)	0.03 dB	2	
	R595	SPDT	26.5	SMA	3 ports	Latching	15/24	Yes	Yes	Yes	Yes	No	0.03 dB	10	
		SPDT ZC (ZC = terminated)	26.5	SMA	3 ports	Latching	15/24	Yes	Yes	Yes	Yes	Yes (2 internal loads)	0.03 dB	10	
					5 ports	Latching						Yes (2 external loads)			
		DP3T	26.5	SMA	5 ports	Latching	15/24	Yes	Yes	Yes	Yes	No	0.03 dB	10	
BYPASS	26.5	SMA	4 ports	Latching	15/24	Yes	Yes	Yes	Yes	Yes	0.03 dB	10			
TITANIUM	R51X	SPnT	26.5	SMA	4 - 6 ways	Latching	24	Yes	Yes	Yes	Yes	N/Y (Internal loads)	0.03 dB	2.5	
SLIMLINE	R596	SPDT	8	SMT mount	None	Failsafe/latching	12/24	No	No	No	No	No	No	2	

*Indicates 75 Ohm product. Switches are break-before-make and 50 Ohms Impedance unless otherwise specified. Terminals may be solder pins or D-Sub. BCD available on select models. Please consult the coaxial switching catalog for more details.

An electromechanical coaxial switch is always composed of:



Options:
Indicators
Electronics
 Cutoff, TTL
 Reset, etc.

