

## **Technical Data Sheet**

SP5T Ramses SMA 18GHz Latching 28Vdc TTL Diodes D-sub connector

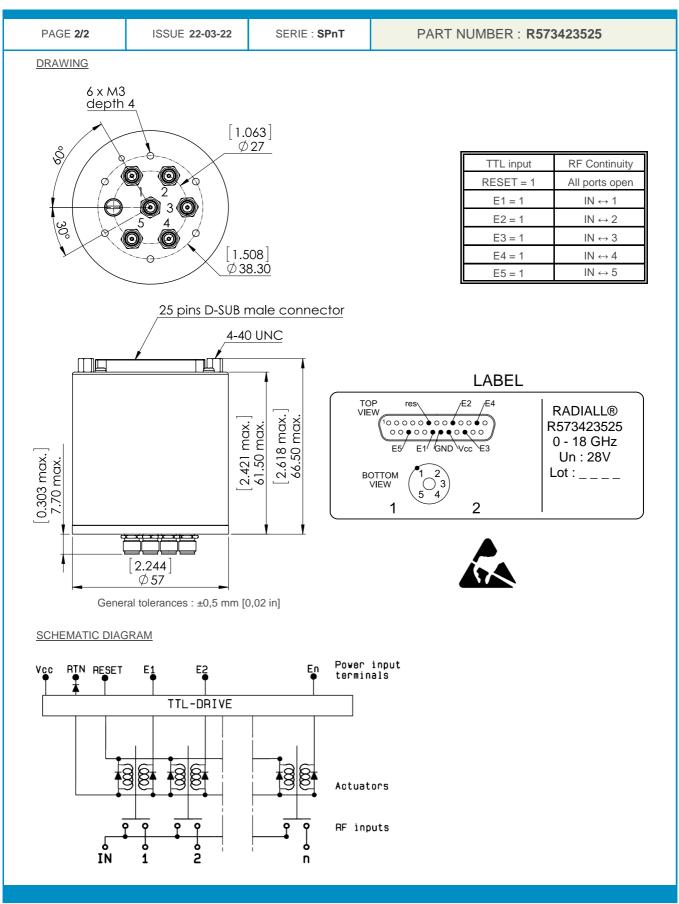
* At 25° C ±10%) ** Nominal voltage ; 25° C)	PAGE <b>1/2</b>	2 ISSUE 22-03-22 SERIE : 5		: SPnT	PA	RT NUMBER : <b>R573423525</b>
Frequency range       2.918 GHz         Impedance       50 Ohms         Impedance       0.00 GH 0.30 GH 0.40 GH 0.50 GH         Imperion loss max       0.20 GH 0.30 GH 0.40 GH 0.50 GH         Isolation min       0.20 GH 0.30 GH 0.40 GH 0.50 GH         Isolation min       0.20 GH 0.30 GH 0.40 GH 0.50 GH         Isolation min       0.20 GH 0.30 GH 0.40 GH 0.50 GH         Isolation min       0.20 GH 0.30 GH 0.40 GH 0.50 GH         Isolation min       0.20 GH 0.30 GH 0.40 GH 0.50 GH         Isolation min       0.20 GH 0.30 GH 0.40 GH 0.50 GH         Isolation min       0.20 GH 0.30 GH 0.40 GH 0.50 GH         Isolation min       0.20 GH 0.30 GH 0.40 GH 0.50 GH         Isolation min       2.40 GH 1.20 MIL         Isolation min       2.20 GH 0.40 GH 0.50 GH         Mindig (Vice)       2.21 fo 5.5 V/ 800µA at 5.5 V/         It public (S)       High level       2.21 fo 5.5 V/ 800µA at 5.5 V/         It public (S)       High level       0 fo 0.8 V / 20µA at 0.8 V         Connectors       Similion cycles per position         Switching Time***       Siglishproof         Weight       Siglishproof         Weight       Siglishproof         Morage power at 25°C per RF Path)       Siglish 26°C to 485°C         Overage power	RF CHARACTERIS	STICS	-			
Frequency range       2.918 GHz         Impedance       50 Ohms         Impedance       0.00 GH 0.30 GH 0.40 GH 0.50 GH         Imperion loss max       0.20 GH 0.30 GH 0.40 GH 0.50 GH         Isolation min       0.20 GH 0.30 GH 0.40 GH 0.50 GH         Isolation min       0.20 GH 0.30 GH 0.40 GH 0.50 GH         Isolation min       0.20 GH 0.30 GH 0.40 GH 0.50 GH         Isolation min       0.20 GH 0.30 GH 0.40 GH 0.50 GH         Isolation min       0.20 GH 0.30 GH 0.40 GH 0.50 GH         Isolation min       0.20 GH 0.30 GH 0.40 GH 0.50 GH         Isolation min       0.20 GH 0.30 GH 0.40 GH 0.50 GH         Isolation min       0.20 GH 0.30 GH 0.40 GH 0.50 GH         Isolation min       2.40 GH 1.20 MIL         Isolation min       2.20 GH 0.40 GH 0.50 GH         Mindig (Vice)       2.21 fo 5.5 V/ 800µA at 5.5 V/         It public (S)       High level       2.21 fo 5.5 V/ 800µA at 5.5 V/         It public (S)       High level       0 fo 0.8 V / 20µA at 0.8 V         Connectors       Similion cycles per position         Switching Time***       Siglishproof         Weight       Siglishproof         Weight       Siglishproof         Morage power at 25°C per RF Path)       Siglish 26°C to 485°C         Overage power	Number			-		
Impedance       : 50 Ohms <u>Frequency (GHz)</u> <u>1.20</u> <u>1.30</u> <u>1.40</u> <u>1.50</u> <u>1.24-18</u> <u>VSWR max</u> <u>1.20</u> <u>1.30</u> <u>1.40</u> <u>1.50</u> <u>1.50</u> <u>1.24-18-18</u> <u>1.50</u> <u>1.50</u> <u>1.24-18-18             <u>1.50</u> <u>1.50</u> <u>1.20</u> <u>1.30</u> <u>1.40</u> <u>1.50</u> <u>1.50</u> <u>1.24-18-18             <u>1.50</u> <u>1.24-18-18             <u>1.50</u> <u>1.50</u> <u>1.20</u> <u>1.50</u> <u>1.50</u> <u>1.50</u> <u>1.50</u> <u>1.50</u> <u>1.50</u> <u>1.50</u> <u>1.50</u> <u>1.50</u> <u>1.24-18             <u>1.50</u> <u>1.50</u></u></u></u></u>						
Trequency (GHz)         DC - 3         3 - 8         8 - 12.4         12.4 - 18           SyrR max         1.20         1.30         1.40         1.50           Insertion loss max         0.20 dB         0.30 dB         0.40 dB         0.50 dB           Isolation min         0.20 dB         0.30 dB         0.40 dB         0.50 dB           isolation min         0.20 dB         0.30 dB         0.40 dB         0.50 dB           isolation min         0.20 dB         0.30 dB         0.40 dB         0.50 dB           isolation min         0.20 dB         0.30 dB         0.40 dB         0.50 dB           isolation min         0.20 dB         0.30 dB         0.40 dB         0.50 dB           isolation min         2.40 W         150 W         120 W         100 W						
VSWR max         1.20         1.30         1.40         1.50           Insertion loss max         0.20 dB         0.30 dB         0.40 dB         0.50 dB           Isolation min         80 dB         70 dB         60 dB         60 dB           Average power (*)         240 W         150 W         120 W         100 W	Impedance			50 Onins		
VSWR max         1.20         1.30         1.40         1.50           Insertion loss max         0.20 dB         0.30 dB         0.40 dB         0.50 dB           Isolation min         80 dB         70 dB         60 dB         60 dB           Average power (*)         240 W         150 W         120 W         100 W	Frequency (	GHz) DC - 3	3 - 8	8 - 12.4	12.4 - 18	
Isolation min       80 dB       70 dB       60 dB       60 dB         Average power (*)       240 W       150 W       120 W       100 W         ECTRICAL CHARACTERISTICS         Actuator       :: LATCHING         Nominal current **       :: 125 mA / RESET: 625 mA ****         Actuator voltage (Voc)       :: 28V (24 to 30V)         Terminals       :: 25 pins D-SUB male connector         TTL inputs (E)       - High level       :: 2.2 to 5.5 V / 800µA at 5.5 V         - Low level       :: 0 to 0.8 V / 20µA at 0.8 V         ECHANICAL CHARACTERISTICS         Connectors       :: SMA female per MIL-C 39012         Life       :: 5 million cycles per position         Switching Time***       :: < 15 ms						
Average power (')       240 W       150 W       120 W       100 W         LECTRICAL CHARACTERISTICS         Actuator       ::::::::::::::::::::::::::::::::::::	Insertion loss	s max 0.20 dE	3 0.30 dB	0.40 dB	0.50 dB	
LECTRICAL CHARACTERISTICS Actuator :: LATCHING Nominal current ** :: 125 mA / RESET : 625 mA **** Actuator voltage (Vcc) :: 28V (24 to 30V) Terminals :: 25 pins D-SUB male connector TL inputs (E) - High level :: 2.2 to 5.5 V / 800µA at 5.5 V - Low level :: 0 to 0.8 V / 20µA at 0.8 V ECHANICAL CHARACTERISTICS Connectors :: SMA female per MIL-C 39012 Life :: 5 million cycles per position Switching Time*** :: 415 ms Construction :: Splashproof Weight :: < 220 g VURONMENTAL CHARACTERISTICS Operating temperature range :: -40°C to +85°C Storage temperature range :: -55°C to +85°C Average power at 25°C per RF Path) Acta5° C ±10%) ** Nominal voltage ; 25° C)					60 dB	
Actuator       :: LATCHING         Nominal current **       :: 125 mA / RESET : 625 mA ****         Actuator voltage (Vcc)       :: 28V (24 to 30V)         Terminals       :: 225 pins D-SUB male connector         TIL inputs (E)       - High level       :: 2: 2 to 5.5 V / 800µA at 5.5 V         - Low level       :: 0 to 0.8 V / 20µA at 0.8 V         ECHANICAL CHARACTERISTICS       :: 0 to 0.8 V / 20µA at 0.8 V         ECHANICAL CHARACTERISTICS       :: 5 million cycles per position         Switching Time***       :: < 15 ms	Average pow	ver (*) 240 W	150 W	120 W	100 W	
Actuator       :: LATCHING         Nominal current **       :: 125 mA / RESET : 625 mA ****         Actuator voltage (Vcc)       :: 28V (24 to 30V)         Terminals       :: 225 pins D-SUB male connector         TIL inputs (E)       - High level       :: 2: 2 to 5.5 V / 800µA at 5.5 V         - Low level       :: 0 to 0.8 V / 20µA at 0.8 V         ECHANICAL CHARACTERISTICS       :: 0 to 0.8 V / 20µA at 0.8 V         ECHANICAL CHARACTERISTICS       :: 5 million cycles per position         Switching Time***       :: < 15 ms						
Actuator       :: LATCHING         Nominal current **       :: 125 mA / RESET : 625 mA ****         Actuator voltage (Vcc)       :: 28V (24 to 30V)         Terminals       :: 225 pins D-SUB male connector         TIL inputs (E)       - High level       :: 2: 2 to 5.5 V / 800µA at 5.5 V         - Low level       :: 0 to 0.8 V / 20µA at 0.8 V         ECHANICAL CHARACTERISTICS       :: 0 to 0.8 V / 20µA at 0.8 V         ECHANICAL CHARACTERISTICS       :: 5 million cycles per position         Switching Time***       :: < 15 ms						
Nominal current ** : 125 mA / RESET : 625 mA **** Actuator voltage (Vcc) : 28V (24 to 30V) Terminals : 25 pins D-SUB male connector TTL inputs (E) - High level : 2.2 to 5.5 V / 800µA at 5.5 V - Low level : 0 to 0.8 V / 20µA at 0.8 V ECHANICAL CHARACTERISTICS Connectors : SMA female per MIL-C 39012 Life : 5 million cycles per position Switching Time*** : <15 ms Construction : Splashproof Weight : < 220 g VVIRONMENTAL CHARACTERISTICS VVIRONMENTAL CHARACTERISTICS VVIRONMENTAL CHARACTERISTICS Average power at 25°C per RF Path) * At 25° C ±10%) ** Nominal voltage : 25° C)	ELECTRICAL CHA	RACTERISTICS				
Nominal current ** : 125 mA / RESET : 625 mA **** Actuator voltage (Vcc) : 28V (24 to 30V) Terminals : 25 pins D-SUB male connector TTL inputs (E) - High level : 2.2 to 5.5 V / 800µA at 5.5 V - Low level : 0 to 0.8 V / 20µA at 0.8 V ECHANICAL CHARACTERISTICS Connectors : SMA female per MIL-C 39012 Life : 5 million cycles per position Switching Time*** : <15 ms Construction : Splashproof Weight : < 220 g VVIRONMENTAL CHARACTERISTICS VVIRONMENTAL CHARACTERISTICS VVIRONMENTAL CHARACTERISTICS Average power at 25°C per RF Path) * At 25° C ±10%) ** Nominal voltage : 25° C)						
Actuator voltage (Vcc)       : 28V (24 to 30V)         Terminals       : 25 pins D-SUB male connector         TTL inputs (E)       - High level       : 2.2 to 5.5 V / 800µA at 5.5 V         - Low level       : 0 to 0.8 V / 20µA at 0.8 V         ECHANICAL CHARACTERISTICS         ECHANICAL CHARACTERISTICS         Connectors         Life       : 5 million cycles per position         Switching Time***       : < 15 ms						A ****
Terminals       25 pins D-SUB male connector         TTL inputs (E)       - High level       2.2 to 5.5 V / 800µA at 5.5 V         - Low level       0 to 0.8 V / 20µA at 0.8 V         ECHANICAL CHARACTERISTICS         Connectors       :         Life       :         Switching Time***       :         Construction       :         WIRONMENTAL CHARACTERISTICS         VVIRONMENTAL CHARACTERISTICS         Average power at 25°C per RF Path)         *       At 25° C ±10%)         **       Nominal voltage ; 25° C)						
TTL inputs (E)       - High level       : 2.2 to 5.5 V / 800µA at 5.5 V         - Low level       : 0 to 0.8 V / 20µA at 0.8 V         ECHANICAL CHARACTERISTICS         Connectors       : SMA female per MIL-C 39012         Life       : 5 million cycles per position         Switching Time***       : < 15 ms						
- Low level : 0 to 0.8 V / 20µA at 0.8 V ECHANICAL CHARACTERISTICS Connectors : SMA female per MIL-C 39012 Life : 5 million cycles per position Switching Time*** : < 15 ms Construction : Splashproof Weight : < 220 g VVIRONMENTAL CHARACTERISTICS VVIRONMENTAL CHARACTERISTICS Average power at 25°C per RF Path) * At 25° C ±10%) ** Nominal voltage ; 25° C)		=) - High lovel				
ECHANICAL CHARACTERISTICS         Connectors       : SMA female per MIL-C 39012         Life       : 5 million cycles per position         Switching Time***       : < 15 ms				-		
Connectors       : SMA female per MIL-C 39012         Life       : 5 million cycles per position         Switching Time***       : < 15 ms         Construction       : Splashproof         Weight       : < 220 g         VVIRONMENTAL CHARACTERISTICS         Operating temperature range       : -40°C to +85°C         Storage temperature range       : -55°C to +85°C         Average power at 25°C per RF Path)         *       At 25° C ±10%)         **       Nominal voltage ; 25° C)		Low lovel	•			
Operating temperature range       : -40°C to +85°C         Storage temperature range       : -55°C to +85°C         Average power at 25°C per RF Path)         *       At 25° C ±10%)         **       Nominal voltage ; 25° C)	Life Switching Time*** Construction		:	5 million cy < 15 ms Splashproc	cles per pos	
Storage temperature range       : -55°C to +85°C         Average power at 25°C per RF Path)         * At 25° C ±10%)         ** Nominal voltage ; 25° C)	ENVIRONMENTAL	CHARACTERISTICS				
Storage temperature range       : -55°C to +85°C         Average power at 25°C per RF Path)         * At 25° C ±10%)         ** Nominal voltage ; 25° C)	Operating temperature range			∶-40°C to +85°C		
Average power at 25°C per RF Path) * At 25° C ±10%) ** Nominal voltage ; 25° C)						
* At 25° C ±10%) ** Nominal voltage ; 25° C)		ũ				ROHS
* At 25° C ±10%) ** Nominal voltage ; 25° C)	(* Average pow	ior at 25°C par DE Dati	2)			
** Nominal voltage ; 25° C)						
						MPLIA
			nax. / duty cycle	10%)		
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## **Technical Data Sheet**

SP5T Ramses SMA 18GHz Latching 28Vdc TTL Diodes D-sub connector



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