# **Technical Data Sheet**



SP12T Terminated Ramses SMA 12.4GHz Latching Self-cut-off Auto-reset Indicators 28Vdc BCD TTL Diodes D-sub connector

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### RF CHARACTERISTICS

Number of ways : 12

Frequency range : 0 - 12.4 GHz Impedance : 50 Ohms

Frequency (GHz)	DC - 3	3 - 8	8 - 12.4
VSWR max	1.20	1.40	1.60
Insertion loss max	0.20 dB	0.40 dB	0.60 dB
Isolation min	80 dB	70 dB	60 dB
Average power (*)	240 W	150 W	120 W

TERMINATION IMPEDANCE : 50 Ohms

TERM. AVG. POWER AT 25° C : 1 W per termination / 3 W total power

### **ELECTRICAL CHARACTERISTICS**

Actuator : LATCHING
Nominal current \*\* : 500 mA

Actuator voltage (Vcc) : 28V (24 to 30V)

Terminals : 44 pins D-SUB male connector

BCD inputs (E) - High level : 3.5 to 5.5 V / 800 $\mu$ A at 5.5 V - Low level : 0 to 1.5 V / 20 $\mu$ A at 0.8 V

## MECHANICAL CHARACTERISTICS

Connectors : SMA female per MIL-C 39012 Life : 2 million cycles per position

Switching Time\*\*\* : < 50 msConstruction : Splashproof
Weight : < 400 g

### **ENVIRONMENTAL 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)



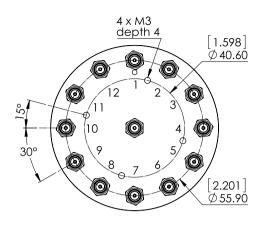


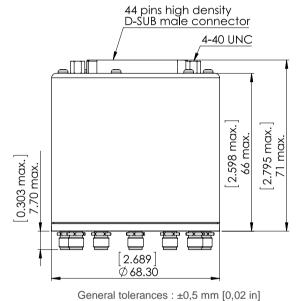


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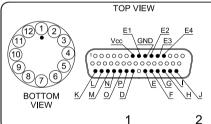
### **DRAWING**





BCD TRUTH TABLE						
E4	E3	E2	E1	RF continuity	Ind.	
0	0	0	0	All ports open (Forced Reset)		
0	0	0	1	$IN \leftrightarrow 1$	D.E	
0	0	1	0	$IN \leftrightarrow 2$	D.F	
0	0	1	1	$IN \leftrightarrow 3$	D.G	
0	1	0	0	$IN \leftrightarrow 4$	D.H	
0	1	0	1	IN ↔ 5	D.I	
0	1	1	0	$IN \leftrightarrow 6$	D.J	
0	1	1	1	$IN \leftrightarrow 7$	D.K	
1	0	0	0	$IN \leftrightarrow 8$	D.L	
1	0	0	1	IN ↔ 9	D.M	
1	0	1	0	IN ↔ 10	D.N	
1	0	1	1	IN ↔ 11	D.O	
1	1	0	0	IN ↔ 12	D.P	

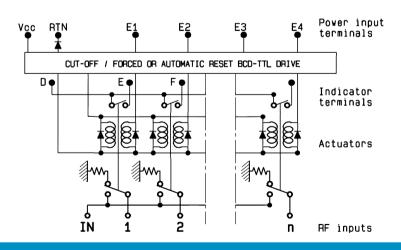
# **LABEL**



RADIALL® R574493285 0 - 12.4 GHz Un : 28V Lot : \_ \_ \_



# SCHEMATIC DIAGRAM



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