# **Technical Data Sheet**



SP12T Terminated Ramses SMA 3GHz Normally open 12Vdc BCD TTL Diodes D-sub connector

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#### RF CHARACTERISTICS

Number of ways : 12
Frequency range : 0 - 3 GHz
Impedance : 50 Ohms

Frequency (GHz)	DC - 3
VSWR max	1.20
Insertion loss max	0.20 dB
Isolation min	80 dB
Average power (*)	240 W

TERMINATION IMPEDANCE : 50 Ohms

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

#### **ELECTRICAL CHARACTERISTICS**

Actuator : NORMALLY OPEN

Nominal current \*\* : 250 mA

Actuator voltage (Vcc) : 12V (10.2 to 13V)

Terminals : 44 pins D-SUB male connector BCD inputs (E) - High level : 3.5 to 5.5 V / 800µA 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\*\*\* : < 15 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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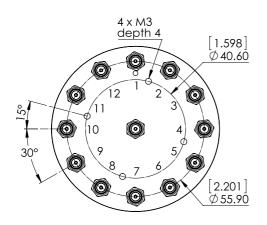


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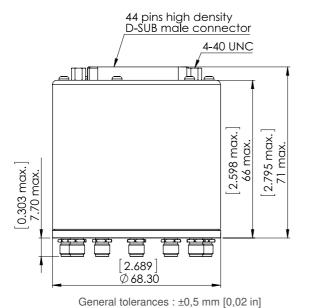
Diodes D-sub connector

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# PAGE 2/2 DRAWING



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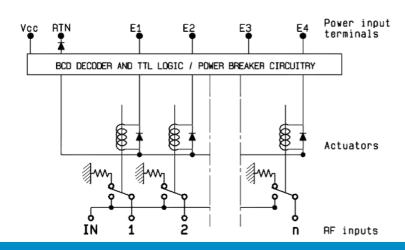
BCD TRUTH TABLE				
E4	E3	E2	E1	RF continuity
0	0	0	0	Last Position
1	1	1	1	All ports open
0	0	0	1	$IN \leftrightarrow 1$
0	0	1	0	$IN \leftrightarrow 2$
0	0	1	1	$IN \leftrightarrow 3$
0	1	0	0	$IN \leftrightarrow 4$
0	1	0	1	IN ↔ 5
0	1	1	0	IN ↔ 6
0	1	1	1	$IN \leftrightarrow 7$
1	0	0	0	IN ↔ 8
1	0	0	1	IN ↔ 9
1	0	1	0	IN ↔ 10
1	0	1	1	IN ↔ 11
1	1	0	0	IN ↔ 12

## **LABEL**

RADIALL® R574302285 0 - 3 GHz Un : 12V Lot : \_\_\_\_



## SCHEMATIC DIAGRAM



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