# **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 : 50 Ohms Impedance

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

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

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

: 0 to 1.5 V / 20µA at 0.8 V - Low level

### MECHANICAL CHARACTERISTICS

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

Switching Time\*\*\* : < 15 ms Construction : Splashproof Weight : < 400 g

## **ENVIRONMENTAL CHARACTERISTICS**

: -40°C to +85°C Operating temperature range : -55°C to +85°C Storage temperature range

Average power at 25°C per RF Path)

At 25° C ±10%)

Nominal voltage; 25° C)



# **Technical Data Sheet**

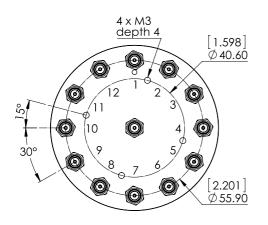


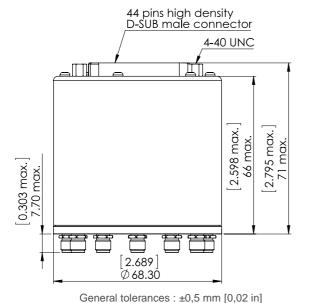
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#### **DRAWING**





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 ↔ 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

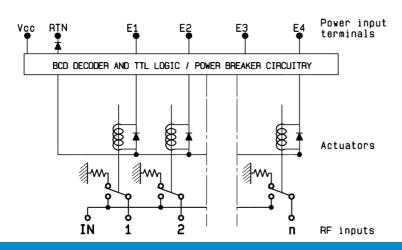
# **LABEL**

TOP VIEW GND E3 000000 000000000000000 BOTTOM VIEW 2 1

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



# **SCHEMATIC DIAGRAM**



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