# **Technical Data Sheet**



SP4T Terminated Ramses SMA2.9 40GHz Latching Self-cut-off Auto-reset 12Vdc TTL Diodes D-sub connector

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### RF CHARACTERISTICS

Number of ways : 4

Frequency range : 0 - 40 GHz Impedance : 50 Ohms

Frequency (GHz)	DC - 6	6 - 12.4	12.4 - 18	18 - 26.5	26.5 - 40
VSWR max	1.30	1.40	1.50	1.70	1.95
Insertion loss max	0.20 dB	0.40 dB	0.50 dB	0.70 dB	1.00 dB
Isolation min	80 dB	70 dB	70 dB	60 dB	55 dB
Average power (*)	40 W	30 W	25 W	15 W	5 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 \*\* : 640 mA

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

Terminals : 25 pins D-SUB male connector

Self cut-off time : 40 ms < CT < 120 ms

TTL inputs (E) - High level : 2.2 to 5.5 V /  $800\mu A$  at 5.5 V

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

### MECHANICAL CHARACTERISTICS

Connectors : SMA 2.9 female per MIL-C 39012
Life : 7 million cycles per position

Switching Time\*\*\* : < 40 msConstruction : Splashproof
Weight : < 250 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)



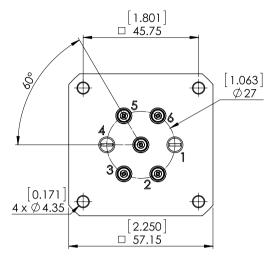




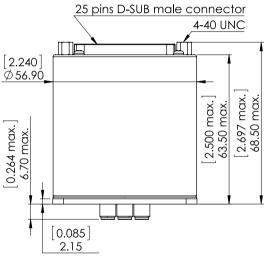
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### **DRAWING**



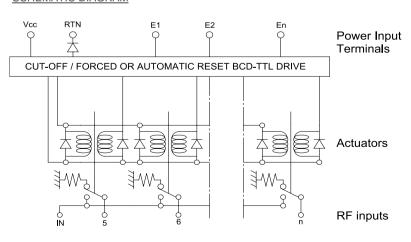
TTL input	RF Continuity		
E2 = 1	$IN \leftrightarrow 2$		
E3 = 1	$IN \leftrightarrow 3$		
E5 = 1	$IN \leftrightarrow 5$		
E6 = 1	$IN \leftrightarrow 6$		



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General tolerances: ±0,5 mm [0,02 in]

# SCHEMATIC DIAGRAM



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