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RF CHARACTERISTICS

Number of ways	:	**6**
Frequency range	:	**0 - 18 GHz**
Impedance	:	**50 Ohms**

Frequency (GHz)	DC - 3	3 - 8	8 - 12.4	12.4 - 18
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

	Passive intermodulation
Tone 1	1810 MHz, approximately 43 dBm
Tone 2	1850 MHz, approximately 43 dBm
3rd order PIM	- 160 dBc at 1770 MHz

Depending on application, carrier powers and frequencies, PIM measurements can vary.

PIM testing is not measured during product acceptance test.

ELECTRICAL CHARACTERISTICS

Actuator	:	**LATCHING**
Nominal current **	:	**375 mA**
Actuator voltage (Vcc)	:	**28V (24 to 30V)**
Terminals	:	**25 pins D-SUB male connector**
Self cut-off time	:	**40 ms < CT < 120 ms**
BCD inputs (E) - High level	:	**3.5 to 5.5 V / 800µA at 5.5 V**
- Low level	:	**0 to 1.5 V / 20µA at 0.8 V**

MECHANICAL CHARACTERISTICS

Connectors*****	:	**SMA female per MIL-C 39012**
Life	:	**2 million cycles per position**
Switching Time***	:	**< 40 ms**
Construction	:	**Splashproof**
Weight	:	**< 220 g**

ENVIRONMENTAL CHARACTERISTICS

Operating temperature range	:	**-25°C to +70°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)

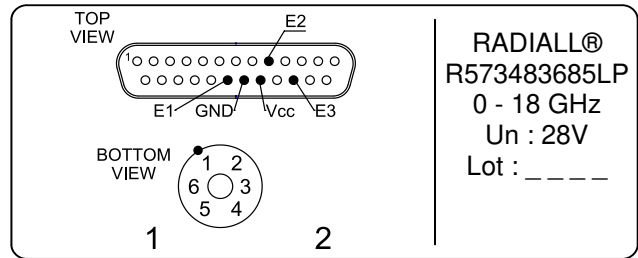(***** Recommended mating torque: 80-120 N.cm)

Technical Data Sheet
SP6T Ramses Low PIM SMA 18GHz Latching Self-cut-off Auto-reset
28Vdc BCD TTL Diodes D-sub connector

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DRAWING

6 x M3
depth 4

[1.063]
Ø 27

60°

30°

[1.508]
Ø 38.30

25 pins D-SUB male connector

4-40 UNC

[2.421 max.] 61.50 max.

[2.618 max.] 66.50 max.

[0.303 max.] 7.70 max.

[2.244]
Ø 57

General tolerances : ±0,5 mm [0,02 in]
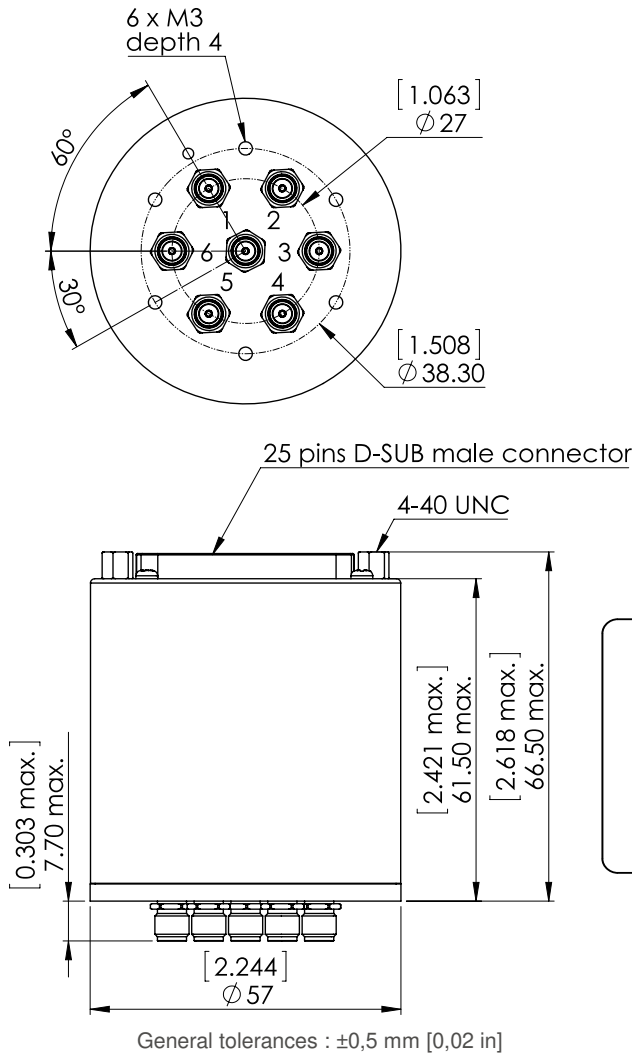
BCD TRUTH TABLE			
E3	E2	E1	RF continuity
0	0	0	All ports open (Forced Reset)
0	0	1	IN ↔ 1
0	1	0	IN ↔ 2
0	1	1	IN ↔ 3
1	0	0	IN ↔ 4
1	0	1	IN ↔ 5
1	1	0	IN ↔ 6

LABEL

TOP VIEW
E2
E1 GND Vcc E3
BOTTOM VIEW
1

RADIALL®
R573483685LP
0 - 18 GHz
Un : 28V
Lot : _ _ _ _

SCHEMATIC DIAGRAM

Vcc RTN   E1   E2   E3   Power input terminals

CUT-OFF / FORCED OR AUTOMATIC RESET BCD-TTL DRIVE

Actuators

RF inputs

IN   1   2   n