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ISSUE 12-09-16

SERIE : SPDT

PART NUMBER : R571863121

## RF CHARACTERISTICS

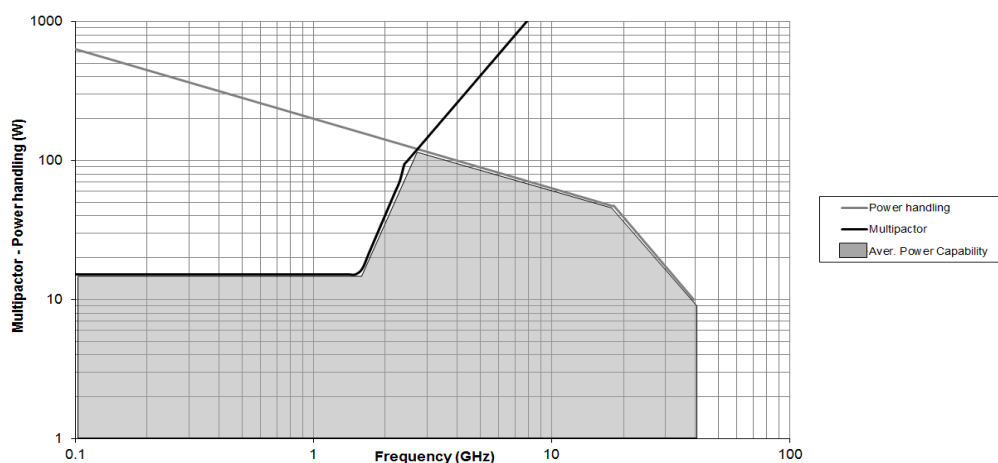
Frequency range : 0 - 40 GHz

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	1.90
Insertion loss max	0.30 dB	0.40 dB	0.50 dB	0.70 dB	0.80 dB
Isolation min	70 dB	60 dB	60 dB	55 dB	50 dB
Average power (*)	80 W	60 W	50 W	20 W	10 W

SWITCH REPEATABILITY : 0.03 dB peak change in insertion loss over 100 cycles

Multipactor and Power handling under vacuum with no margin



## ELECTRICAL CHARACTERISTICS

Actuator : LATCHING  
 Nominal current \*\* : 80 mA  
 Actuator voltage (Vcc) : 28V (24 to 30V) / POSITIVE COMMON  
 Terminals : solder pins (250°C max. / 30 sec.)  
 Indicator rating : 1 W / 30 V / 100 mA  
 Self cut-off time : 40 ms < CT < 120 ms

## MECHANICAL CHARACTERISTICS

Connectors : SMA 2.9 female per MIL-C 39012  
 Life : 10 million cycles  
 Switching Time\*\*\* : < 10 ms  
 Construction : Vacuum compatible  
 Weight : < 45 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 (sea level))

(\*\*) At 25° C ±10%)

(\*\*\*) Nominal voltage ; 25° C)



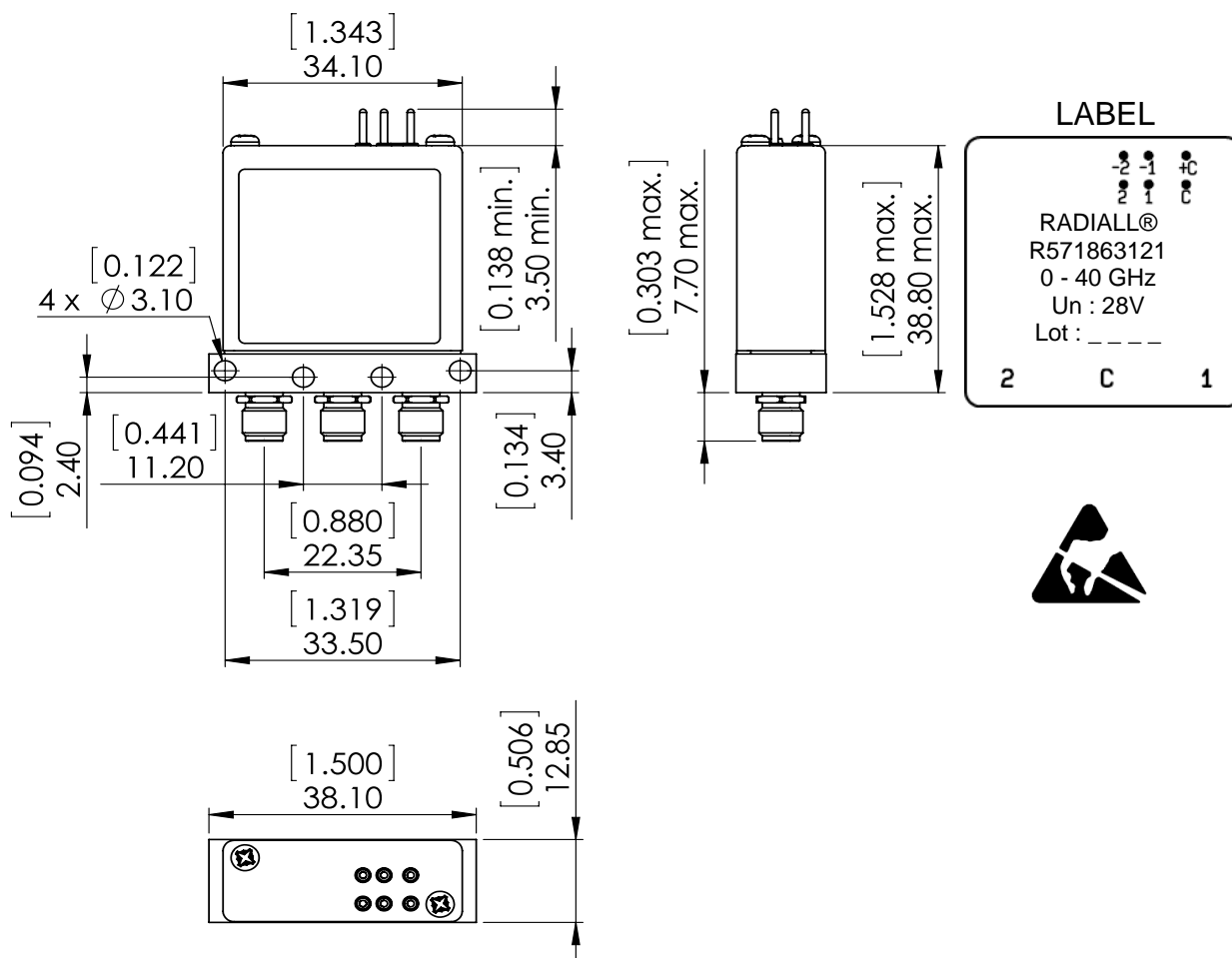
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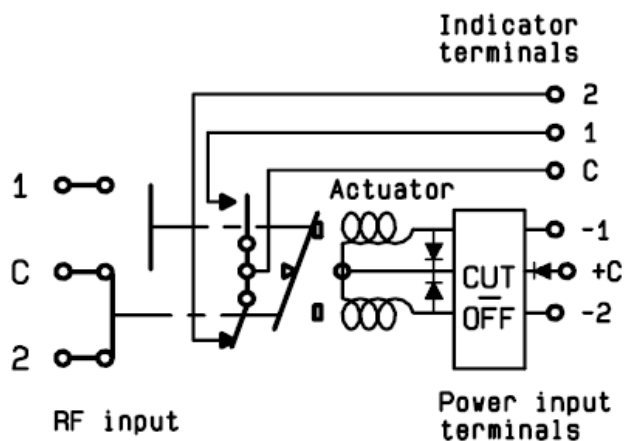
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DRAWING



General tolerances :  $\pm 0.5$  mm [0.02 in]

SCHEMATIC DIAGRAM



Voltage	RF Continuity	Ind.
+C -1	C $\leftrightarrow$ 1	C.1
+C -2	C $\leftrightarrow$ 2	C.2

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