

# R573882620 Datasheet



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DiGi Electronics Part Number	R573882620-DG
Manufacturer	<a href="#">Radiall USA, Inc.</a>
Manufacturer Product Number	R573882620
Description	IC RF SWITCH SP6T 40GHZ
Detailed Description	RF Switch IC General Purpose SP6T 500hm

This model R573882620 is available at DiGi Electronics.

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## Purchase and inquiry

Manufacturer Product Number:

R573882620

Series:

-

RF Type:

General Purpose

Circuit:

SP6T

Isolation:

50dB (min)

Test Frequency:

40GHz

IIP3:

-

Impedance:

50Ohm

Operating Temperature:

-40°C ~ 85°C

Supplier Device Package:

-

Manufacturer:

Radiall USA, Inc.

Product Status:

Active

Topology:

-

Frequency Range:

0Hz ~ 40GHz

Insertion Loss:

1.1dB (max)

P1dB:

-

Features:

-

Voltage - Supply:

10.2V ~ 13V

Package / Case:

Module

## Environmental & Export classification

RoHS Status:

ROHS3 Compliant

Moisture Sensitivity Level (MSL):

Not Applicable

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SERIE : SPnT

PART NUMBER : R573882620

## RF CHARACTERISTICS

Number of ways : **6**  
 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	<b>1.30</b>	<b>1.40</b>	<b>1.50</b>	<b>1.70</b>	<b>2.20</b>
Insertion loss max	<b>0.20 dB</b>	<b>0.40 dB</b>	<b>0.50 dB</b>	<b>0.70 dB</b>	<b>1.10 dB</b>
Isolation min	<b>70 dB</b>	<b>60 dB</b>	<b>60 dB</b>	<b>55 dB</b>	<b>50 dB</b>
Average power (*)	<b>40 W</b>	<b>30 W</b>	<b>25 W</b>	<b>15 W</b>	<b>5 W</b>

## ELECTRICAL CHARACTERISTICS

Actuator : **LATCHING**  
 Nominal current \*\* : **960 mA**  
 Actuator voltage (Vcc) : **12V (10.2 to 13V)**  
 Terminals : **solder pins (250°C max. / 30 sec.)**  
 Self cut-off time : **40 ms < CT < 120 ms**  
 TTL inputs (E) - High level : **2.2 to 5.5 V / 800µA 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 : **2 million cycles per position**  
 Switching Time\*\*\* : **< 40 ms**  
 Construction : **Splashproof**  
 Weight : **< 220 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)



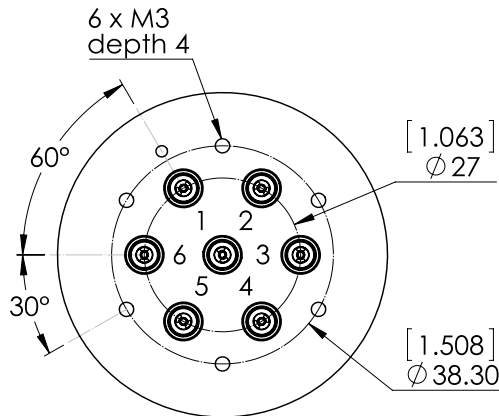
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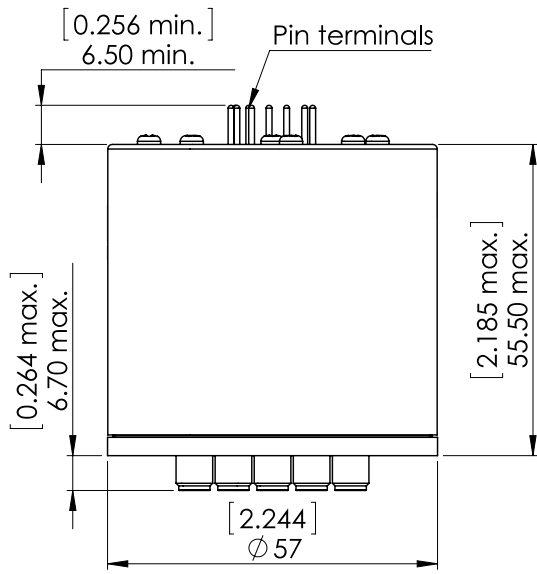
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DRAWING

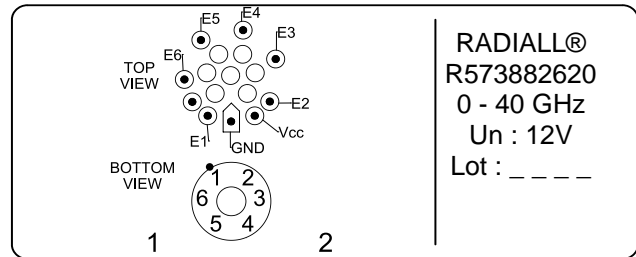


TTL input	RF Continuity
E1 = 1	IN ↔ 1
E2 = 1	IN ↔ 2
E3 = 1	IN ↔ 3
E4 = 1	IN ↔ 4
E5 = 1	IN ↔ 5
E6 = 1	IN ↔ 6

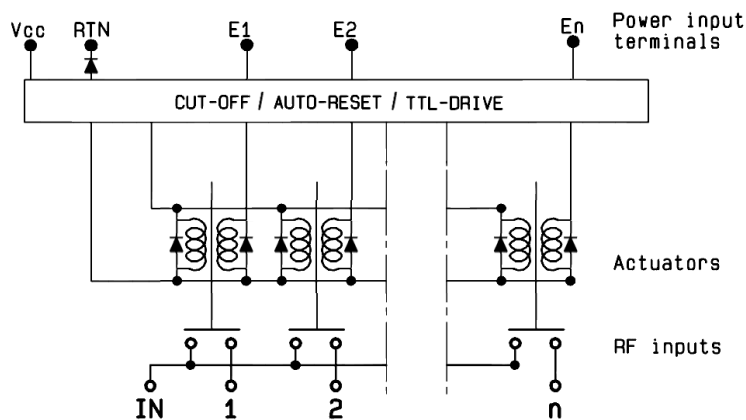


General tolerances : ±0,5 mm [0,02 in]

LABEL



SCHEMATIC DIAGRAM



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