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26.5 GHz SMA LATCHING S.P.D.T. SWITCH

Page
1 / 2

OPTIONS : INDICATOR / SELF CUT-OFF / TTL DRIVE

R F CHARACTERISTICS

FREQUENCY RANGE : 0 - 26.5 GHz
IMPEDANCE : 50 Ohms

FREQUENCY (GHz)	0 - 3	3 - 8	8 - 12.4	12.4 - 18	18 - 26.5
V.S.W.R	<= 1.20	1.30	1.40	1.50	1.70
INSERT. LOSS	<= 0.20 dB	0.30 dB	0.40 dB	0.50 dB	0.70 dB
ISOLATION	>= 80 dB	70 dB	60 dB	60 dB	55 dB
AVER. POWER (*)	240 W	150 W	120 W	100 W	40 W

ELECTRICAL CHARACTERISTICS

ACTUATOR : LATCHING
NOMINAL CURRENT AT 25°C (±10%) : 210 mA
ACTUATOR VOLTAGE (V_{CC}) : 12V (10.2 to 13V) / NEGATIVE 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
TTL INPUTS (E) - High level : 2.2 to 5.5V / 800µA at 5V
- Low level : 0 to 0.8V / 20µA at 0.8V

MECHANICAL CHARACTERISTICS

CONNECTORS : SMA fem. per MIL C 39012
LIFE : 10.000.000 cycles
SWITCHING TIME (nominal voltage; 25°C) : < 10 ms
CONSTRUCTION : splashproof
WEIGHT : < 45 g

ENVIRONMENTAL CHARACTERISTICS

OPERATING TEMPERATURE RANGE (°C) : -40 , +85
STORAGE TEMPERATURE RANGE (°C) : -55 , +85

(* : average power at 25°C)

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The diagram shows a 100-MHz RF switch circuit. On the left, the RF input is connected to a switch mechanism. The switch is controlled by an actuator, which is in turn controlled by TTL signals (E1, E2) from a TTL block. The actuator is also connected to a power supply (Vcc, GND). The switch has three output terminals: 1, 2, and C. Terminal 1 is connected to the actuator, terminal 2 is connected to the power supply, and terminal C is connected to the TTL block. The TTL block is labeled 'TTL' and has inputs E1 and E2, and outputs Vcc and GND.