

RI 2582

SOLID STATE SWITCH

DP8T

2 poles and 8 throws

OVERVIEW

The RI 2582 is a high-performance solid state switch module with 2 poles and 8 throws. Any of the 2 poles can be connected to any of the 8 throws. It is very well suited for high volume testing where long lifetime is required without sacrificing RF performance. RI 2582 offers good linearity, power handling and speed.

FEATURES

- DP8T USB/I²C controlled, terminated
- USB driver DLL available for download
- 0.1-4.8 GHz RF frequency range
- Insertion loss < 4.8 dB up to 3 GHz
- Isolation > 70 dB
- +26 dBm maximum input power
- USB bus-powered when controlled via USB
- Flexible supply voltage via I²C interface: 4.7-15 VDC
- High repeatability
- Ultra-long lifetime

APPLICATION

- RI 2582 is designed for applications such as
- Production testing of mobile handsets
 - Production testing of mobile base-stations
 - Built-In-Test (BITE) applications
 - MIMO applications

CONTROL INTERFACE

RI 2582 Molex 502584-0570	Function
PIN 1	GND
PIN 2	SDA
PIN 3	VCC*
PIN 4	SCL
PIN 5	GND

* 4.7-15 VDC



SPECIFICATIONS

Switch mode	DP8T, USB/I ² C, terminated
Supply voltage I ² C	4.7-15 VDC
Supply current max	< 50 mA @ USB/I ² C
I ² C-bus LOW-level	0.99 V
I ² C-bus HIGH-level	2.31 V
I ² C-bus MAX-level	5.5 V
Switching time (max)	20 ms
Operating frequency	0.1-4.8 GHz
Impedance	50 Ohm
Max DC at RF inputs	25 VDC
VSWR (max) RFCy→RFx	1.67:1 @ 0.1-0.698 GHz 1.79:1 @ 0.698-4.8 GHz
VSWR (max) RFx→RFCy	1.60:1 @ 0.1-0.698 GHz 1.67:1 @ 0.698-4.8 GHz
VSWR RFCy terminated (max)	1.67:1 @ 0.1-0.689 GHz 1.79:1 @ 0.698-4.8 GHz
VSWR RFx terminated (max)	1.43:1 @ 0.1-3 GHz 1.67:1 @ 3-4.8 GHz
Insertion loss (max)	3.8 dB @ 0.1-0.698 GHz 4.0 dB @ 0.698-1.5 GHz 4.8 dB @ 1.5-3 GHz 6.0 dB @ 3-4.8 GHz
Isolation between RF ports	70 dB @ 0.1-4.8 GHz
Input power thru path (max)	26 dBm @ 0.1-4.8 GHz
Input power hot switching & into termination (max)	20 dBm @ 0.1-4.8 GHz
Input 1 dB compression point	23 dBm @ 0.5-4.8 GHz
Input IP3	40 dBm @ 0.5-4.8 GHz
Operating temperature	0°C to +50°C
Dimensions	50x100x22 mm
Weight	75 g
Connectors	SMA (f)

ORDERING

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DP8T Solid State Switch