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NI PXI-2545

2.7 GHz 50 Ω Terminated 4x1 Mux (Insertion Loss <2.0 dB)

- 50 Ω characteristic impedance
- 2.7 GHz bandwidth
- Insertion loss at 2.7 GHz <2.0 dB (typical <1.7 dB)
- VSWR at 2.7 GHz <1.6 (typical <1.45)
- Onboard relay counting
- Use NI Switch Executive for calibrating losses on each channel of the PXI-2545



Overview

The NI PXI-2545 is a 4x1 high-frequency terminated multiplexer switch module suited for routing signals from DC to 2.7 GHz in 50 Ω RF applications. It can switch up to 30 Vrms or 500 mA, with a maximum power rating of 10 W.

The internal termination of the PXI-2545, which helps prevent high-power reflections that arise from open channels on the module, makes it ideal for use in RF applications where such reflections can damage the source. The module also provides excellent insertion loss, voltage standing-wave ratio (VSWR), and isolation parameters to minimize signal degradation. You can use the onboard relay count tracking feature to predict relay lifetime and reduce unexpected system downtime.

Note: The bandwidth specification of a switch module is not an absolute specification and is determined by vendor standards. Although you can route higher-frequency signals through this switch module, these signals may encounter more degradation than those at lower frequencies. To determine the best switch module for your application, review the insertion loss, VSWR, and isolation specifications of the product for the bandwidth of your application. For more information on choosing the right RF switch for your application, review “The Guide to Selecting an RF Switch” under the Resources tab.

Specifications

Specifications Documents

- Specifications
- Data Sheet

Specifications Summary

General	
Product Family	Switches
Form Factor	PXI Platform
PXI Bus Type	PXI Hybrid Compatible

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Part Number	778572-45
Operating System/Target	Real-Time , Windows
Triggering	Analog
Synchronization Bus (RTSI)	Yes
External Clocking	Yes
Length	16 cm
Width	10 cm
Height	2 cm
I/O Connector	SMA female
Power Requirement for +3.3V Rail	0.09 A
Power Requirement for +5V Rail	0.74 A
Slot Two Module	No
Module Width	1
MXI Compatible	Yes
Product Name	PXI-2545
Switches	
Switch Type	Multiplexer , RF
Max Switching Voltage DC (Pollution Deg. 2)	30 Vrms
Maximum Switching Voltage AC	30 Vrms
Max Switching Current	0.5 A
Maximum Carry Current	0.5 A
Maximum Switching Power	10 W
Bandwidth	2.7 Hz
Relay Type	Electromechanical
Relay Count Tracking	Yes
Voltage Category	CAT I
Product Certifications	UL - Product Safety , CE , IEC
Path Resistance (Typical)	0.25 Ohm
Scan Rate	45 cycles/s
VSWR Ratio	1.45 , 1.25
VSWR Frequency	1 GHz , 2.7 GHz

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