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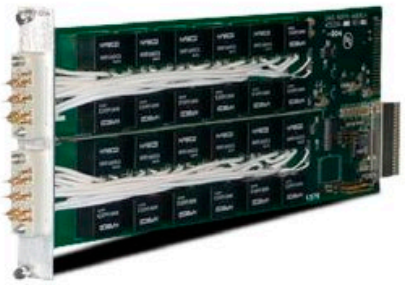
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Racal Instruments™ 1220A/B/C/D

24-Channel 16 A Switch Plug-In

The Racal Instruments™ 1220 24-channel switch plug-in provides versatile power switching up to 16 A for the 1800 series LXI Source/Measure Switch System and is available in four different configurations:

- 1220A: 24 channels of SPST with space for parallel components
- 1220B: 12 channels of 1x2 with space for parallel components
- 1220C: 6 channels of 1x4 with space for parallel components
- 1220D: 2 channels of 1x12 with space for parallel components

Key Features

- **24-Channel, 16 A switching available in 4 configurations: 24 SPST (A), 12 1x2 (B), 6 1x4 (C), or 2 1x12 (D)**
- **Ideal for power switching applications up to 16 A**
- **Hard-wired reset enables emergency power down**
- **Supports Lab-Windows™/CVI, LabVIEW™, ActivATE™, and other popular test platforms**
- **Made in the USA**

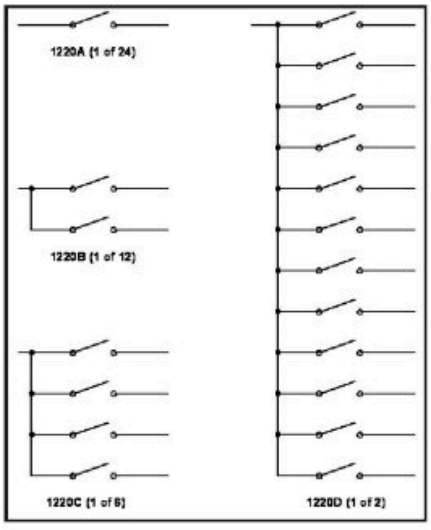
Product Information

Ideal for Power Supply Switching Applications

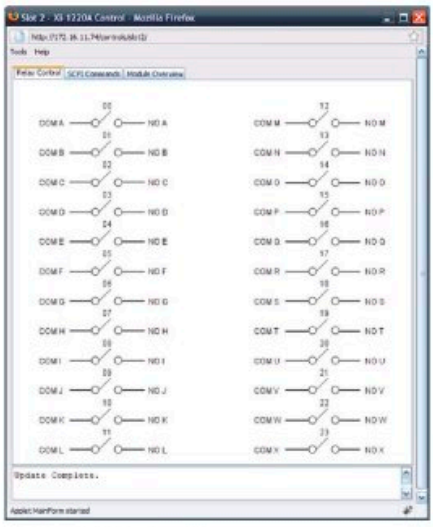
The Racal Instruments™ 1220 plug-in is ideal for switching power supply signals and switches currents up to 16 A and power up to 300 W/4000 VA. The hard-wired reset immediately opens all closed channels when activated and can be used for an emergency power down.

Designed for Easy Integration

The 1220 plugs into an 1800 series mainframe, which includes USB-2, LXI, Ethernet, and GPIB connectivity for quick and easy connection to your host controller. Software drivers are included for popular test environments. Drivers based on the Microsoft Visual Studio® and .NET frameworks are provided for the ActivATE™ Test Platform development system. IVI-COM drivers are provided for NI's LabVIEW™ or Microsoft's Visual C++® development systems. IVI-C drivers are provided for NI's LabWindows™/CVI development system.



1220 A/B/C/D Block Diagram



1220 LXI Web Control

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Specifications

Note: The EADS North America Test and Services policy is one of continuous development and improvement. Consequently, the equipment may vary in detail from the description and specifications in this publication.

Input

Maximum Switching Voltage
- 125 VDC or 250 VAC

Maximum Switching Current
- 16 A DC/AC

Maximum Switching Power
- 300 W, 4000 VA

DC Performance

Path Resistance
- <50 mΩ (Initial)

Insulation Resistance
- >5x10^8 Ω

Thermal EMF
- <10 µV

AC Performance

(into 50 Ω)

Bandwidth (-3 dB)*
- 8 MHz (Models A/B/C/D)

Insertion Loss
- 100 KHz: < 0.1 dB
- 1 MHz: < 0.1 dB
- 8 MHz: < 1.5 dB

Isolation
- 100 KHz: >60 dB
- 1 MHz: >45 dB
- 8 MHz: >25 dB

Crosstalk
- 100 KHz: <-70 dB
- 1 MHz: <-50 dB
- 8 MHz: <-30 dB

Capacitance
- Channel-Chassis: <200 pF
- Open Channel: <20 pF

Interface

Front Panel I/O Interface Connector
- 26 pin rack and panel connector x 2

Power Requirements
- +5 VDC at 100 mA
- +3.3 VDC at 1 A
- +5 VDC at 40 mA per energized relay

Software

Native Language
- SCPI & SCPI scripting

Driver Support
- IVI (C and COM), LabVIEW™

Test Executive/GUI
- ActivATE™ (optional)

Web Page
- LXI Control Only

Environmental

Temperature
- Operating: 0° C to 50° C
- Storage: -40° C to 71° C

Relative Humidity
- 80% RH at 40° C

Emissions/Immunity
- EN61326: 2006 Class B

Safety
- EN61010-1: 2001
- Pollution degree 1: 250 V
- Pollution degree 2: 250 V
- Not for connection directly to mains power

Material Handling
- RoHS

Switching Time
- <15 ms (includes settling time)

Rated Switch Operations
- Mechanical: 1 X 10^8
- Electrical: 100,000 @125 V_{rms}/ 16 A/2 kVA

MTBF (MIL-STD-217FN2)
- 439,072 hrs

MTTR
- <5 min

Relay Operations Counter
- Running total of operations stored in on-board non-volatile memory

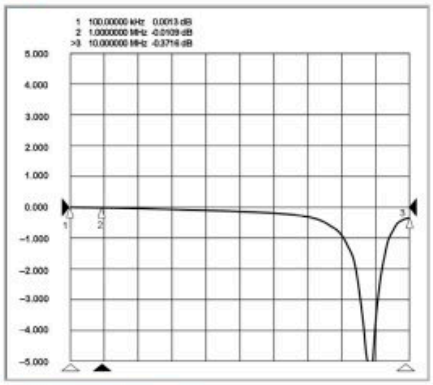
Mechanical

Weight
- 21 oz (0.6 kg)

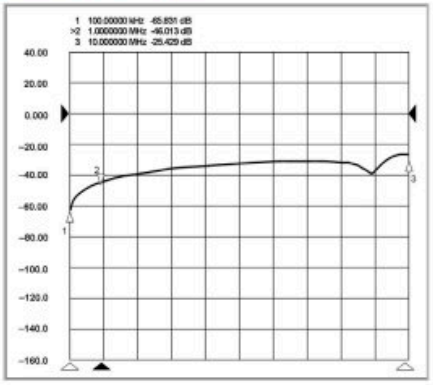
Dimensions
- 4.26" H x 0.75" W x 11.82" D

* All module configurations characterized up to 8 MHz

Typical Channel



Typical Insertion Loss



Typical Isolation

CE The CE Mark indicates that the product has completed and passed rigorous testing in the area of RF Emissions and Immunity to Electromagnetic Disturbances, and complies with European electrical safety standards.

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Ordering Information

405324-001 : Racal Instruments™ 1220A
24-Channel SPST 16 A Switch Plug-In

405324-002 : Racal Instruments™ 1220B
12-Channel 1x2 16 A Switch Plug-In

405324-003 : Racal Instruments™ 1220C
6-Channel 1x4 16 A Switch Plug-In

405324-004 : Racal Instruments™ 1220D
Dual Channel 1x12 16 A Switch Plug-In

Accessories:

408201 : Mating Connector Kit (includes two 26-pin housings and pins)
408200 : Cable Assembly for 1220 A/B/C/D, 6 feet, user-end unterminated

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