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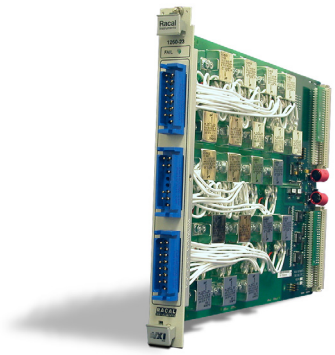
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Find the *Astronics / EADS / Racal 1260-23* at our website: ***Click HERE***



Racal Instruments™ 1260-23

OBSOLETE

High-Current, Low-Path Resistance Power Switch Module

The Racal Instruments™ 1260-23 is a 1-channel of SPDT, 2 Channels of DPDT, and 5 Channels of SP4T, high-current switch module.

Key Features

- **1 Channel of SPDT, 2 channels of DPDT, 5 channels of SP4T, high-current switching**
- **Switching for power supplies and current sources**
- **Switches up to 25 A, AC or DC**
- **Very low path resistance, less than 20 mΩ**

Product Information

It was designed for switching and routing high-current, high power sources such as AC and DC power supplies in automated test systems. The 1260-23 switches currents up to 25 A, AC or DC, and voltages up to 32 VDC or 130 VAC.

The 1260-23 uses a military-quality hermetically sealed relay to provide the ultimate power switching solution both in terms of performance and reliability. These relays are less susceptible to contact contamination; therefore, they maintain low contact resistance over a much longer lifetime.

To reduce voltage loss and heating effects, the module was designed to have very low series path resistance. The design uses low resistance connector pins, low resistance relays and heavy gauge wire.

The message-based and register-based Racal Instruments™ Option 01T interface controls the 1260-23. Refer to the Option 01T data sheet for specifications and product features such as include, exclude, and scan lists; relay coil-current monitoring; and user-defined path names and reset states.

An IVI-COM driver is also available for this module.

ASTRONICS TEST SYSTEMS

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Specifications

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

Input Performance

Maximum Switching Voltage
- 130 VAC, 32 VDC

Maximum Switching Current
- 25 AAC, 25 ADC

Maximum Switching Power
- 2,875 VA, 700 W

DC Performance

Path Resistance
- <20 mΩ

Insulation Resistance
- $>10^9$ Ω

AC Performance (Into 50 Ω)

Bandwidth (-3 dB)
- >300 kHz

Isolation
- DC to 100 kHz: >60 dB
- 100 kHz to 300 kHz: >50 dB

Crosstalk (dB)
- DC to 100 kHz: <-60 dB
- 100 kHz to 300 kHz: <-50 dB

Capacitance
- Channel-Chassis: <40 pF
- Open Channel: <40 pF

Interface

Maximum Overall Power Dissipation
- 80 W

Peak Current at 47.1 Watts
- +5 VDC at 1.81 A
- +5 VDC at 2.71 A with Option 01T
- +12 VDC at 150 mA per energized relay (3.0 A max)

Front Panel I/O Interface Connector
- 3 16-pin Positronic connectors

Environmental

Temperature
- Operating: 0° C to +55° C
- Non-operating: -40° C to +75° C

Humidity (non-condensing)
- 95 % at <30° C

Altitude
- Operating: 10,000 ft.*
- Non-operating: 15,000 ft.

Shock
- 30 g, 11 ms, 1/2 sine wave

Vibration (non-operating)
- 0.013 in: (pk-pk), 5 to 55 Hz

Bench Handling
- 4-inch drop at 45°

Emissions
- Designed to meet EN55011A with limits in accordance with EN50081-1

Immunity
- Designed to meet IEC901-2,3,4 with limits in accordance with EN50082-1

Safety
- Designed to meet EN61010-1
- Impulse Withstand 1000 V

Switching Time
- <25 ms

Rated Switch Operations
- Mechanical: 10,000,000 operations
- Electrical: 10,000 operations at full rated load

MTBF (MIL-HDBK-217-FN2)
- With relays: 383,962 hrs (25° C)
- With relays: 352,367 hrs (30° C) (50% rated load, 0.1 cycle/hr)

Mechanical

Weight
- Without Option 01T: 4.40 lbs (2.00 kg)
- With Option 01T: 4.71 lbs (2.14 kg)

Dimensions
- C-size, single-slot VXIbus module

Cooling Requirements (w/o Option 01T)
- Airflow: 4.25 l/s
- Backpressure: 0.394 mm H_2O

* Operation at 15,000 feet requires derating of maximum overall power dissipation to 65 W.

Ordering Information

Note: An Option 01T smart card must be installed in the left-most slot of a set of 1260-xx series switch cards.

408005 : Racal Instruments™ 1260-23 Switch Module (Obsolete)
25 A Low Path Resistance Power Switch Module

Options and Accessories:

OPT-405108-001 : Racal Instruments™ Option 01T Smart Control Module installed (manual must be ordered separately; see below)

407531-001 : Racal Instruments™ Option 01T Smart Control Module (not installed) with manual

407917 : Connector Mating Kit contains: 3 16-pin mating connector shells; 54 female connector pins

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