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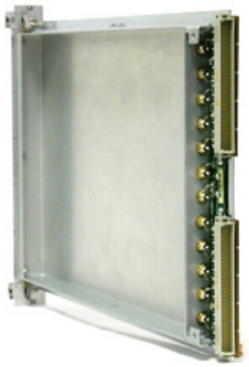
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Racal Instruments™ 7066

OBSOLETE

RF Prototyping Module

The Racal Instruments™ 7066 is ideal for adding specific RF and Microwave modules into a VXIbus system. The 7066 decouples and filters the VXIbus backplane power lines for use within the shielded enclosure.

Key Features

- **For RF and microwave applications**
- **Decoupled and filtered power lines from VXIbus backplane**
- **Shielded RF compartment**
- **Low cost, 1 or 2-slot, C-size modules**

Product Information

Add Microwave Functions to VXIbus Systems

This module enables RF components or sub systems to be conveniently added to a VXIbus system. RF/Microwave couplers, splitters, amplifiers or up-and-down converters can be added to your system in this fully shielded module. If additional cooling is required, holes may be drilled in the modules shield to provide air circulation.

VXIbus Power is Accessible

The 7066 fully utilizes the available power from the VXIbus by connecting to multiple power pins on the P1 and P2 connectors. This gives you custom RF circuitry access to 7 A on the +5 V rail, 5 A on the -5.2 V rail and 1 A for all others. Single or double slot versions are available but only one row of P1/P2 connectors are used (i.e. no difference in power capability).

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.

Prototyping Features

Breadboarding Space

- 11.58 in (289 mm) x 8.36 in (209 mm): 97 in^2

RF Compartment

- Sealed (no cooling holes), either single or double (Opt. 01) wide

Supplies to RF Compartment

+24	+12	+5	-5.2	-12	-24
1 A	1 A	7 A	5 A	1 A	1 A

Lower voltages loss <10 mV/A Higher voltages loss <20 mV/A

Power Supply Filtering (insertion loss at specified frequency)

- 10 MHz: 20 db
- 100 MHz: 65 dB
- 500 MHz to 1 GHz: 70 dB

Optional Features

Option 01

- Double Wide RF Compartment

Environmental

Temperature

- Operating: 0º C to 50º C

EMI

- Meets MIL-STD-461C CEO3/REO3

EMC (Council Directive 89/336/EEC)

- Meets CE requirement but dependent upon added circuitry.

Safety (Low Voltage Directive 3/23/EEC)

- EN6010-1, IEC1010-1, UL3111-1, CSA 22.2#1010

Mechanical

Cooling (single slot)

- 21º C Rise with 40 W Dissipation in RF Compartment.

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.

Ordering Information

R-7066 : Racal Instruments™ 7066
Single Slot RF Prototype Module

R-7066/01 : Racal Instruments™ 7066-01
Double Slot RF Prototype Module

R-7066/02 : Racal Instruments™ 7066-02
Triple Slot RF Prototype Module

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