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Find the *Astronics / EADS / Racal 7065* at our website: *Click HERE*

RACAL INSTRUMENTS™ 7065



RF Prototyping Module

- **For RF and Microwave Applications In One, Two or Three Slot Package**
- **Message-Based Interface**
- **Fully De-coupled and Filtered Power and Interface Lines**
- **Shielded RF Compartment**
- **Adds High-performance Custom Capability to any C-Size Chassis**
- **Excellent Microphonic and Vibration Performance**

Add Customized RF and Microwave Performance to your VXIbus System
The 7065 prototyping card allows the incorporation of high performance RF and microwave instruments, systems and subsystems onto the VXIbus. The 7065 features a powerful on-card message-based VXIbus interface. This eliminates the need for product developers to invest resources in the design of a proprietary interface. The 7065 permits manufacturers of virtually any high-performance instrument to quickly adapt their products to the VXIbus format.

Shielded RF Compartment Eliminates Additional Screening Requirements
The carefully engineered RF compartment ensures an EMI sealed cavity and highly efficient heat dissipation. Custom designs can be implemented on the card without additional screening. The shielded compartment, power line filtering, and interface decoupling enable this card to be used in any chassis. Performance specifications are not degraded by the chassis.

Microphonic and Vibrational Immunity
The rigid milled aluminum construction of the 7065 provides excellent immunity to vibrational and microphonic effects.

Power and Interface Lines Are De-coupled and Filtered
Twenty-six de-filtered input/output control lines, as well as a number of desirable power supply voltages, are fed into the shielded compartment. Additional smoothing, filtering, regulation and decoupling may be added as required.

EADS NORTH AMERICA DEFENSE

Artisan Technology Group - Quality Instrumentation ... Guaranteed | (888) 88-SOURCE | www.artisantg.com

7065 PRODUCT SPECIFICATIONS

PROTOTYPING FEATURES

Buffered I/O

24 Channels: Bi-directional (tri-state)

VXIbus Interrupt

Rotary Switch Selectable

Breadboarding Space

47 in.^{2}

RF Compartment

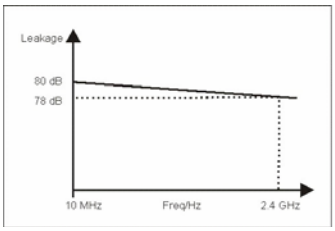
Screened, either single, double (Opt. 01) or triple (Opt. 03) wide.

Supplies to RF Compartment

+24	+15	+5	-5.2	15	-24
1A*	1A	1A	1A	1A	1A

*less +15 V supply current

RF Leakage



OPTIONAL FEATURES

Option 01:

Double Wide RF Compartment

Option 02:

Extender Cable Extends RF Compartment for benchtop access.

Option 03:

Triple Wide RF Compartment

VXIBUS INTERFACE DATA

(Message based, VXIbus Rev. 1.3 compliant)

Software

IEEE 488.2 Compliant

Backplane Signal Support

TTLTRG0-7: Bi-directional

Local Bus: Expansion to 1 Slave Module

Status Lights

Red: Sysfail

Cooling (single slot)

21°C Rise with 40 W Dissipation in RF Compartment.

ENVIRONMENTAL DATA

Temperature

Operating: 0° C to 50° C

Weight

Single Wide: 4.5 lb (2.0 kg)

Double Wide: 5.0 lb (2.3 kg)

Triple Wide: 5.2 lb (2.4 kg)

EMI

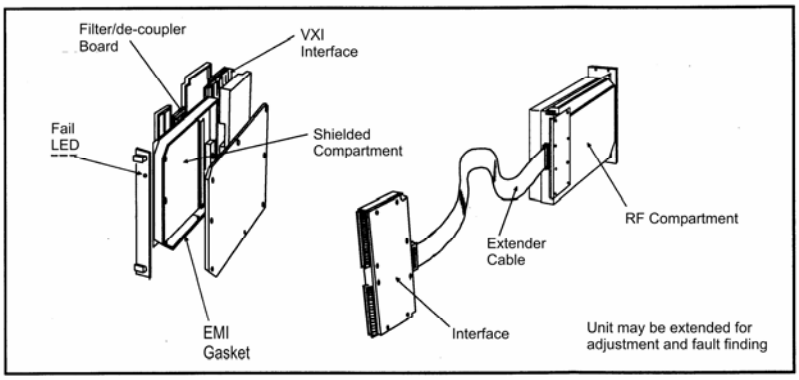
Meets MIL-STD-461C CEO3/REO3

EMC (Council Directive 89/336/EEC)

Meets CE requirement but dependent upon added circuitry.

Safety (Low Voltage Directive 73/23/EEC)

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



ORDERING INFORMATION

MODEL/DESCRIPTION	PART NUMBER
Racal Instruments 7065, Single-slot RF Prototype Module with Interface	R-7065
Racal Instruments 7065/01, Double-slot RF Prototype Module with Interface	R-7065/01
Opt. 02, Extender Cable	R-02 Cable

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

The EADS North America Defense Test and Services policy is one of continuous development, consequently the equipment may vary in detail from the description and specification in this publication.

EADS North America Defense Test and Services

1.800.722.2528/1.949.859.8999 sales@eads-nadefense.com

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