

General

The relay-based G2R20 coaxial microwave switching module provides a flexible configuration with N-Type connectors for high power or low-loss RF applications. It provides up to five individual relay sections within a single module, using only four slots. The relay sections are bidirectional and can be used to select one of six inputs to a single output, or route a single input to one of six destinations. This is considered a 1xN type configuration.

When a port is not selected, it is open and is not terminated to a load. Each relay element is individually shielded from each other and internal control circuitry.

Ultra-high reliability relay elements (>1,000,000 operations) are coupled with control and status circuitry. Sections can be field replaced, though the module cover must be removed. The module also features hot-swap control technology for easy maintenance.

A unique power saving control circuit reduces DC power and cooling requirements for the module and increases overall reliability. Proper relay operation is verified by the internal CPU monitoring the relay coil current. The number of sections included is determined by the model number. A reduced configuration can be further populated while in the field. Additional configurations are available on special order.

For control and DC power, the module must be installed into any G2 type mainframe controller. The mainframe must have either the -100, -D100, -600 or -D600 power supply configuration (-200 or -D200 by special order).

Applications

- ATE systems
- Communication installations
- Antenna routing
- Switching high speed ECL/PECL data
- Satellite control centers
- Ground station IF or RF signal routing

Features

- High reliability, high power relay elements
- DC to 12.5GHz bandpass (min)
- Flexible configuration expandable in field
- High performance stainless steel N-Type signal connectors
- Hot-Swap module technology
- Plug-in relay elements (cover must be removed)
- Rugged aluminum shielded enclosure
- Built-in control and status circuitry
- Individually shielded sections

Configurations

- G2R12-11X6-60One 1x6 relay 4 slots
- G2R12-21X6-60Two 1x6 relays 4 slots
- G2R12-31X6-60Three 1x6 relays 4 slots
- G2R12-41X6-60Four 1x6 relays 4 slots
- G2R12-51X6-60Five 1x6 relays 4 slots

NOTE 1: A reduced number of sections can be further populated while in the field.

NOTE 2: Other relay configurations besides 1x6 are available such as 1x5, 1x4, and 1x3 or a mixture of elements. Contact the factory.

NOTE 3: By special order, the -20 suffix may be specified (-200 or -D200 power supply configuration).



Model G2R12-51X6-60
Five sections of 1x6



