

Swift Series S-band Latching Redundancy Switch

Low insertion loss, 500-3150 MHz

SWF-G2S-S6-118-xxxx is a hot swap, S-band latching redundancy (SPDT) switch operating over 500 to 3150MHz and -45 to -5dBm mean power. The module incorporates RF detection at each of its input ports and switches over if the level differs by more than 4 to 20dB, customer settable. In order to minimise switching operations the switch will maintain the new path if the first path is restored. The first path can be selected manually via the web interface if required. It can be used to operate with optical receivers from the StingRay Genus 2U or outdoor chassis.

Chassis

Resilience
from dual redundant hot-swap power supplies & field replaceable CPU & HMI

Flexible module configurations
choose from a mixture of switch modules with different operating frequencies.

Remote control & monitoring
via RJ45 Ethernet port with SNMP & web browser interface



Local control & monitoring
via HMI high resolution touchscreen

Field replaceable internal reference source

Secure protocols
with SNMPv3 and HTTPS

Compact
indoor and outdoor chassis options, which can be part populated



Switch Module

Compact form factor allowing multiple modules to be housed in the Genus chassis. Each module occupies 1 slot in the chassis.

Latching relay 2x1 redundancy switch.



| RF Parameters | |
|--|---|
| Model Numbers | SWF-G2S-S6-118 |
| Frequency Range | 500 to 3150 MHz |
| Capacity | 2:1 (ElectroMech relay) |
| Connector Type | SMA |
| Impedance | 50 Ohm (Reflective (open) port behaviour for un-switched path) |
| Insertion Loss | 2 dB nominal @ 2 GHz 3 dB maximum |
| Flatness | 850-2150 MHz: ± 1.0 dB 500-3150 MHz: ± 1.5 dB |
| Return Loss | 12 dB minimum |
| Isolation (path to path) | 50 dB minimum |
| Max RF Input | 16 dBm total power (Damage level, NOT operational) |
| Switchover Options (Switchover operation user configurable) | Input comparison: Switching threshold 4 dB to 20 dB differential user settable Active path level: Level detection range -45 to -5 dBm (total power) user settable. Manual: User control via web interface/ASCII protocol/local HMI. |
| Switchover time | 0 (15ms) to 10 seconds (User Settable) |
| Switch life | 10,000,000 Cycles minimum |
| Switch action | Break before make |
| Environmental | |
| Temperature | Storage: -20°C to +75°C Operating: -20 to +60°C |
| Location | Indoor use only |
| Humidity | 20 to 95% non-condensing |
| Altitude | 10,000 feet AMSL |

Note 1: The specification is subject to regular reviews and will be updated from time to time as part of our continuing product development and improved spec accuracy.

Note 2: Operation beyond the quoted limits stated above may cause instantaneous and permanent damage.