R&S®OSP-BL01 LOAD UNIT
19", two height units

The perfect choice for

Aerospace and defense	System integrators
RF and microwave components	Mobile network testing

Key specifications

Connector type	SMA (f-f), panel-mounted
Load handling	up to 20 kg, even distribution of weight of the auxiliary components across supporting tray surface
Dimensions, with handles, W × H × D	467 mm × 88 mm × 440 mm

For better organization and optimal space utilization

The R&S®OSP-BL01 load unit is a bespoke, precision-engineered 19" slotted tray design. It is secure, ideal for meticulous organization, and can house a diverse array of components. The R&S®OSP-BL01 consists of a tray, 19" rackmount kit, sets of cables and panel-mounted SMA adapters. The tray is designed and cut to accommodate a diverse array of components of varying shapes and sizes such as high-power terminations. The R&S®OSP-BL01 is capable of holding up to 20 kg of evenly distributed weight.

The R&S®OSP-BL01 makes a perfect match for the R&S®OSP-B182E RF module for the R&S®OSP, especially when there is a requirement for terminated operation with power of more than 10 W. All terminations can be securely contained on the tray. The terminations can be connected with the cables and adapters provided via the front panel and to the connectors of the R&S®OSP-B182E RF module for operation.

Your benefit	Features of the R&S®OSP-BL01
Versatile	▶ Accommodates a wide variety of components in different shapes and sizes ▶ Expands utility across multiple applications such as transmit/receive module (TRM) testing for radar applications and mobile network testing ▶ Slotted design allows better air circulation and heat dissipation and reduces overall weight for easier handling during removal or installation
Ease of integration and customization	▶ Enhances organization with uniformly spaced slots enabling systematic arrangement ▶ High flexibility with evenly spaced slots allowing easy adjustment and reconfiguration when needed ▶ Ensures a neat and orderly appearance along with easy identification and access to components ▶ Professional aesthetic reflecting a high standard of care and attention to detail
Maximized space utilization and improved security	▶ Efficient use of space with optimized slot placement, allowing more components to be accommodated in a compact area ▶ Slotted design enables easy securing of odd shapes to securely hold components in place; prevents access and potential damage during operation or storage ▶ Compartmentalized for enhanced security and safe operation

For options, prices and more information, visit
www.rohde-schwarz.com

R&S®OSP-BL01 deliverables

▶ Universal 19" fit: The 2U rackmount load unit is designed to be mounted in any standard front mount 19" system rack or cabinet
▶ Durable in design: Made and constructed with stable and corrosion-resistant aluminum ensuring long-term durability
▶ Shipped partially assembled for quick and easy assembly and integration
▶ Base plate consists of slots that are evenly spaced (in metrics) to allow easy securing of a wide variety of components in different shapes and sizes
▶ Supports a total weight load of 20 kg
▶ Fully designed, manufactured and produced in Germany
▶ Delivery consists of:
  – One bespoke, precision-engineered tray
  – One 19" rackmount kit
  – Sixteen SMA (f-f) adapters
  – Eight 220 mm semi-flexible RF cables with SMA (m-m) for internal cabling
  – Eight 400 mm semi-flexible RF cables with SMA (m-m) for internal cabling
  – Sixteen 230 mm flexible RF cables with SMA (m-m) for external cabling

Application example

The R&S®OSP-BL01 is a perfect match for the R&S®OSP-B182E modules. When combined with one R&S®OSP220 base unit and three R&S®OSP-B182E modules, an SP16T can be easily formed for termination of more than 10 W in a 4 HU configuration.

As the termination grows in size with an increase in power rating, it is no longer possible to mount it directly on the open ports of the R&S®OSP-B182E. The R&S®OSP-BL01 load unit offers the possibility to support terminations with a much higher power rating of e.g. > 10 W.

The R&S®OSP-BL01 comes with a supporting tray, sets of RF cables in multiple lengths, panel-mounted SMA (f-f) adapters and a 19" rackmount kit to allow easy integration. All terminations can be organized and secured within the R&S®OSP-BL01. The picture on the right provides an impression of a fully loaded R&S®OSP-BL01 with terminations secured on the tray. Note that the terminations, securing screws and parts required for securing the terminations are not included as standard with the load unit.

Feature highlights of the R&S®OSP

▶ Modular, reliable and cost-efficient
▶ Compact, secure and flexible
▶ Powerful control and RF relay modules up to 67 GHz
▶ Expandable system configurations
▶ Convenient manual and remote control and trigger function

R&S®OSP220 (top, left), R&S®OSP230 (bottom, left), R&S®OSP320 (right)

Ordering information

Designation	Type	Order No.
Load unit, 19", 2 HU	R&S®OSP-BL01	1528.3270.02
Supported R&S®OSP base units		
R&S®OSP base unit (2 RU)	R&S®OSP220	1528.3105K02
R&S®OSP base unit (2 RU) with touchscreen	R&S®OSP230	1528.3105K03
R&S®OSP base unit (3 RU)	R&S®OSP320	1528.3111K02
Recommended extras		
RF module for R&S®OSP [1], 1 × SP6T, non-terminated, DC to 26.5 GHz, SMA (f), external termination	R&S®OSP-B182E	1528.3263.21
SMA wrench	R&S®SMA-Wrench	1528.1590.02
Torque wrench for 3.5/2.92/ 2.4/1.85 mm connection, 0.9 Nm coupling	R&S®ZN-ZTW	1328.8534.35