

OSFP Loopback Module



The Lorum OSFP loopback module effectively tests OSFP ports in the host system by looping back the electrical signal. The loopback supports data rates of up to 400 Gbps. The hot pluggable feature allows changing to/from another OSFP compatible module without having to remove system power. Each module provides serial ID information which describes the part number in the EEPROM. The Lorum OSFP loopback module provides an economical way to exercise OSFP ports during R&D validation, production testing and field testing. It is available with an optional LED light at the front as a status indicator.



Product Features & Benefits

- Broadband operation capabilities for data rate up to 400 Gbps
- Extended plug cycle life
- Excellent EMC/EMI performance
- Customized loopback module solutions including EEPROM contents
- Proprietary high-speed PCB design minimizes the impedance discontinuity and crosstalk
- Different pull-tab color options
- Support various levels of power consumption and attenuation at DC
- OSFP MSA Compliant
- Temperature range from 0°C to 70°C
- Optional LED indicator

Target Markets & Applications

- High density and data rate I/O in SAN, NAS and Servers
- Switches and routers
- Data center cabling infrastructure
- High density interconnects for networking equipment and high-performance computing

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Electrical Characteristics

Differential Impedance:	100±10	Ohms
Data Rate:	Up to 400	Gbps, PAM-4 modulation
Power Supply Voltage:	3.3 ± 5%	V
Power Class:	0, 3.5 and 10	W
Attenuation at DC:	0, 3 and 6	dB

Mechanical Characteristics

Keyed:	No
Latch Type:	Pull tab to release

Environmental Characteristics

Operating Temperature:	0-70°C
Storage Temperature:	-20-80°C

Mechanical Characteristics



- Back Shell Material: Zinc Die Cast, Nickel plated, electrodeposited as per AMS-QQ-N-290 Class 2
- Pull Tab Color: Various color options
- Pull Tab Material: Nylon
- Dimensions according to OSFP MSA

Lorom Part Number	Power Class	Attenuation at DC	Optional LED Light
LRHSP D60 Z000	0W	0dB	No
LRHSP D60 Z003	0W	3dB	No
LRHSP D60 Z006	0W	6dB	No
LRHSP D60 Z010	4W	0dB	No
LRHSP D60 Z013	4W	3dB	No
LRHSP D60 Z016	4W	6dB	No
LRHSP D60 Z020	12W	0dB	No
LRHSP D60 Z023	12W	3dB	No
LRHSP D60 Z026	12W	6dB	No
LRHSP D61 Z000	0W	0dB	Yes
LRHSP D61 Z003	0W	3dB	Yes
LRHSP D61 Z006	0W	6dB	Yes
LRHSP D61 Z010	4W	0dB	Yes
LRHSP D61 Z013	4W	3dB	Yes
LRHSP D61 Z016	4W	6dB	Yes
LRHSP D61 Z020	12W	0dB	Yes
LRHSP D61 Z023	12W	3dB	Yes
LRHSP D61 Z026	12W	6dB	Yes