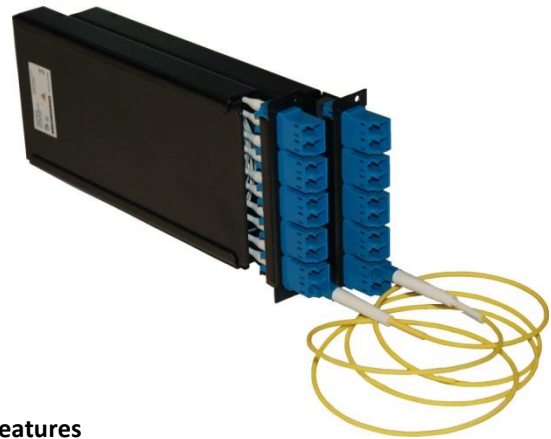


OS-x-xx-x

2 and 4 way Optical Splitters for Video and Data distribution applications

Data Sheet



Description

The OS-x-xx-x are passive optical splitters that fit into the miniHUB frame system. These are mainly used for passive optical signal distribution and fiber redundancy applications.

You can install 2 packages into the miniHUB-2RU-4-2 or 10 packages into the miniHUB-2RU-0-10 passive frame.

The units are available with 1:2 or 1:4 split ratio.

The OS-2-xx-3 packages include 3 x 2 way splitters, and the OS-4-25-2 package includes 2 x 4 way splitters. The OS-2-50-1 is also available with 1 x 2 way splitter.

These filters use the LC/PC fiber connectors that are preferred by SMPTE

Part Number Options

Part Number	Split ratio	Temperature *)
OS-2-50-1	50/50	-40°C to +65°C
OS-2-50-3	50/50	-40°C to +65°C
OS-2-60-3	60/40	-40°C to +65°C
OS-2-70-3	70/30	-40°C to +65°C
OS-2-80-3	80/20	-40°C to +65°C
OS-2-90-3	90/10	-40°C to +65°C
OS-2-50-70-90-3	50/50 70/30 90/10	-40°C to +65°C
OS-4-25-2	25/25/25/25	-40°C to +65°C

*) Rated temperature for the complete miniHUB.

Features

- 1:2 and 1:4 split ratios
- Low insertion loss
- Fits Single Channel, WDM and CWDM applications
- High density with up to 3 splitters per package
- Compliant to SMPTE 297-2006
- Allows bi-directional traffic
- LC/UPC connector

Absolute Maximum Ratings

Absolute maximum ratings are those values beyond which functional performance is not intended, device reliability is not implied, and damage to the device may occur.

Parameter	Minimum	Maximum	Unit
Storage temperature (non-operating)	-40	+85	°C
Relative Humidity (non-condensing)	5	95	%

Recommended Operating Conditions

Parameter	Minimum	Typical	Maximum	Unit
Case operating temperature:	-40		+85	°C
Relative Humidity (non-condensing)	5		90	%

Optical Characteristics

Parameter	Minimum	Typical	Maximum	Unit
Split ratio	1:2 and 1:4			
Operating Wavelength	1260 - 1620			nm
Insertion Loss				dB
OS-2-90-3: 3x 1:2 – 90/10			11.1 / 0.7	dB
OS-2-80-3: 3x 1:2 – 80/20			7.8 / 1.25	dB
OS-2-70-3: 3x 1:2 – 70/30			5.9 / 2.05	dB
OS-2-60-3: 3x 1:2 – 60/40			4.6 / 2.75	dB
OS-2-50-1: 1x 1:2 – 50/50			3.6	dB
OS-2-50-3: 3x 1:2 – 50/50			3.6	dB
OS-2-50-70-90-3: 3x 1:2 – 1x 50/50 + 1x 70/30 + 1x 90/10			3.6 / 3.6 5.9 / 2.05 11.1 / 0.7	dB dB dB
OS-4-25-2: 1:4 – 25/25/25/25			8.0	dB
Directivity	50			dB
Connector	LC/UPC			
Transmitting circuit fiber	Single Mode (9/125µm)			

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