OCC1D—Add/Drop single channels

Field-installable Dense wavelength division multiplexing devices

COMMSCOPE®

Overview

Experience the power of seamless communication with the CommScope OCC1D. Our innovative solution harnesses the potential of Dense Wavelength Division Multiplexing (DWDM) to revolutionize your connectivity experience. DWDM efficiently multiplexes distinct signals, each with its unique wavelength, into a single fiber. Whether you need to combine or demultiplex these wavelengths at a remote location, the OCC1D is your trusted partner.

Designed for simplicity and versatility, the CommScope OCC1D effortlessly integrates DWDM technology into various CommScope products. Our cutting-edge DWDM components are built on Thin-Film-Filter (TFF) technology, ensuring top-notch performance and reliability. Elevate your network capabilities with the OCC1D and experience a new era of connectivity.

OCC1D field installable DWDM optical performance

Technologies	Dome closures
Channel Spacing	0.8 nm (100GHz)
Operating Wavelength	ITU 20 to 61
Passband @ 0.5dB	CW ± 0.125 nm
Upgrade Port Passband	ITU 20 to 61 except DWDM channel in module
Ripple within Passband DWDM Channel	≤ 0.3 dB
Port Insertion Loss (Pass)	≤ 0.6 dB
Port Insertion Loss (Reflect channel)	≤ 0.4 dB
DWDM Channel Port Uniformity	N/A
Isolation adjacent	≥ 30 dB
Isolation non-adjacent	≥ 40 dB
Isolation remaining channels	≥ 12 dB
Directivity	≥ 50 dB
Return Loss	≥ 50 dB
PDL	≤ 0.15 dB
PMD	≤ 0.15 ps
IL Thermal Stability	≤ 0.005 dB/°C
Wavelength Thermal Stability	≤ 0.001 nm/°C
Max Input Power	300 mW (24.8 dBm)
Operating temperature	-40/+85°C (outdoor)
Operating Humidity	5% to 95% RH
Connector Type	No Connector
Fiber Length	1.9 – 2.6 meter

ADVANTAGES

- Low attenuation (insertion loss)
- Consistent performance
- Small footprint
- Excellent mechanical and environmental characteristics
- Low polarization dependent loss (PDL)

APPLICATIONS

- DWDM overlay in PON architectures
- Increase the capacity between the central office and the headend in HFC networks
- DWDM in long haul networks
- DWDM upgrades in metro networks, including ethernet and cell site backhaul

Ordering information – Legacy products

OCC1D for legacy products is compatible with:

- Tenio
- OFDC-C12
- FOSC 400 and 450, B, C, D and FOSC500-AA trays*

* The OCC1D is supplied with a FOSC splice module that allows installation in various FOSC trays.

OCC1D field installable DWDM

MID	Description	MID	Description	MID	Description
Double (de)mux (single channel add or drop on 2 fiber system)					
R32159-000	OCC1D-X-200-NNNQF (ITU 20)	R96882-000	OCC1D-X-340-NNNQF (ITU 34)	322369-000	OCC1D-X-480-NNNQF (ITU 48)
T63574-000	OCC1D-X-210-NNNQF (ITU 21)	R32650-000	OCC1D-X-350-NNNQF (ITU 35)	BC7441-000	OCC1D-X-490-NNNQF (ITU 49)
E31478-000	OCC1D-X-220-NNNQF (ITU 22)	R74125-000	OCC1D-X-360-NNNQF (ITU 36)	T74441-000	OCC1D-X-500-NNNQF (ITU 50)
B57410-000	OCC1D-X-230-NNNQF (ITU 23)	V68741-000	OCC1D-X-370-NNNQF (ITU 37)	V63332-000	OCC1D-X-510-NNNQF (ITU 51)
A68521-000	OCC1D-X-240-NNNQF (ITU 24)	R69312-000	OCC1D-X-380-NNNQF (ITU 38)	B63339-000	OCC1D-X-520-NNNQF (ITU 52)
J35412-000	OCC1D-X-250-NNNQF (ITU 25)	V95478-000	OCC1D-X-390-NNNQF (ITU 39)	E33984-000	OCC1D-X-530-NNNQF (ITU 53)
H68521-000	OCC1D-X-260-NNNQF (ITU 26)	B35216-000	OCC1D-X-400-NNNQF (ITU 40)	C63154-000	OCC1D-X-540-NNNQF (ITU 54)
R68752-000	OCC1D-X-270-NNNQF (ITU 27)	T58874-000	OCC1D-X-410-NNNQF (ITU 41)	C96541-000	OCC1D-X-550-NNNQF (ITU 55)
J96321-000	OCC1D-X-280-NNNQF (ITU 28)	K98521-000	OCC1D-X-420-NNNQF (ITU 42)	C78825-000	OCC1D-X-560-NNNQF (ITU 56)
R74129-000	OCC1D-X-290-NNNQF (ITU 29)	JK9632-000	OCC1D-X-430-NNNQF (ITU 43)	D63214-000	OCC1D-X-570-NNNQF (ITU 57)
F63215-000	OCC1D-X-300-NNNQF (ITU 30)	M63215-000	OCC1D-X-440-NNNQF (ITU 44)	CC7744-000	OCC1D-X-580-NNNQF (ITU 58)
L63215-000	OCC1D-X-310-NNNQF (ITU 31)	552120-000	OCC1D-X-450-NNNQF (ITU 45)	DC9926-000	OCC1D-X-590-NNNQF (ITU 59)
K69850-000	OCC1D-X-320-NNNQF (ITU 32)	TH8547-000	OCC1D-X-460-NNNQF (ITU 46)	E85214-000	OCC1D-X-600-NNNQF (ITU 60)
J63987-000	OCC1D-X-330-NNNQF (ITU 33)	R55412-000	OCC1D-X-470-NNNQF (ITU 47)	892676-000	OCC1D-X-610-NNNQF (ITU 61)

Ordering information – NOVUX ready

OCC1D NOVUX ready is compatible with:

- CSC100, CSC150, CSC200

NOVUX®

Configurable. Scalable. Simple.

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MID	Description	MID	Description	MID	Description
Double (de)mux (single channel add or drop on 2 fiber system)					
760256928	NOVUX-OCC1D-X-200-NNNQF (ITU 20)	760256942	NOVUX-OCC1D-X-340-NNNQF (ITU 34)	760256956	NOVUX-OCC1D-X-480-NNNQF (ITU 48)
760256929	NOVUX-OCC1D-X-210-NNNQF (ITU 21)	760256943	NOVUX-OCC1D-X-350-NNNQF (ITU 35)	760256957	NOVUX-OCC1D-X-490-NNNQF (ITU 49)
760256930	NOVUX-OCC1D-X-220-NNNQF (ITU 22)	760256944	NOVUX-OCC1D-X-360-NNNQF (ITU 36)	760256958	NOVUX-OCC1D-X-500-NNNQF (ITU 50)
760256931	NOVUX-OCC1D-X-230-NNNQF (ITU 23)	760256945	NOVUX-OCC1D-X-370-NNNQF (ITU 37)	760256959	NOVUX-OCC1D-X-510-NNNQF (ITU 51)
760256932	NOVUX-OCC1D-X-240-NNNQF (ITU 24)	760256946	NOVUX-OCC1D-X-380-NNNQF (ITU 38)	760256960	NOVUX-OCC1D-X-520-NNNQF (ITU 52)
760256933	NOVUX-OCC1D-X-250-NNNQF (ITU 25)	760256947	NOVUX-OCC1D-X-390-NNNQF (ITU 39)	760256961	NOVUX-OCC1D-X-530-NNNQF (ITU 53)
760256934	NOVUX-OCC1D-X-260-NNNQF (ITU 26)	760256948	NOVUX-OCC1D-X-400-NNNQF (ITU 40)	760256962	NOVUX-OCC1D-X-540-NNNQF (ITU 54)
760256935	NOVUX-OCC1D-X-270-NNNQF (ITU 27)	760256949	NOVUX-OCC1D-X-410-NNNQF (ITU 41)	760256963	NOVUX-OCC1D-X-550-NNNQF (ITU 55)
760256936	NOVUX-OCC1D-X-280-NNNQF (ITU 28)	760256950	NOVUX-OCC1D-X-420-NNNQF (ITU 42)	760256964	NOVUX-OCC1D-X-560-NNNQF (ITU 56)
760256937	NOVUX-OCC1D-X-290-NNNQF (ITU 29)	760256951	NOVUX-OCC1D-X-430-NNNQF (ITU 43)	760256965	NOVUX-OCC1D-X-570-NNNQF (ITU 57)
760256938	NOVUX-OCC1D-X-300-NNNQF (ITU 30)	760256952	NOVUX-OCC1D-X-440-NNNQF (ITU 44)	760256966	NOVUX-OCC1D-X-580-NNNQF (ITU 58)
760256939	NOVUX-OCC1D-X-310-NNNQF (ITU 31)	760256953	NOVUX-OCC1D-X-450-NNNQF (ITU 45)	760256967	NOVUX-OCC1D-X-590-NNNQF (ITU 59)
760256940	NOVUX-OCC1D-X-320-NNNQF (ITU 32)	760256954	NOVUX-OCC1D-X-460-NNNQF (ITU 46)	760256968	NOVUX-OCC1D-X-600-NNNQF (ITU 60)
760256941	NOVUX-OCC1D-X-330-NNNQF (ITU 33)	760256955	NOVUX-OCC1D-X-470-NNNQF (ITU 47)	760256969	NOVUX-OCC1D-X-610-NNNQF (ITU 61)

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discoveries that spark profound human achievement.
We collaborate with our customers and partners to design,
create and build the world's most advanced networks. It is our
passion and commitment to identify the next opportunity and
realize a better tomorrow. Discover more at commscope.com.

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