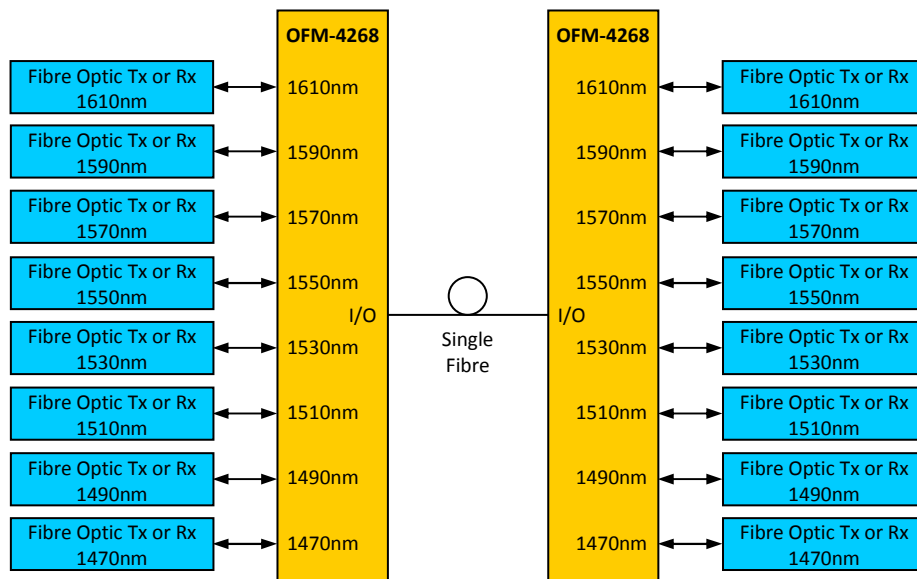


8 Channel CWDM Fibre Optic Multiplexer/Demultiplexer

FEATURES

- Eight set CWDM optical wavelength inputs and outputs.
- Low insertion loss.
- Uni-directional or bi-directional operation.
- Connections made by SC/PC connectors.

BLOCK DIAGRAM OFM-4268 SIGNAL PATH



GENERAL

The OFM-4268 is coarse wave division optical wavelength division multiplexer / demultiplexer (CWDM) for combining and separating up to eight optical signals of 1470nm, 1490nm, 1510nm, 1530nm, 1550nm, 1570nm, 1590nm and 1610nm wavelengths for either uni-directional or bi-directional transmission on the one fibre.

With the high cost of hiring or installing additional dark fibre it makes economical sense to maximise the use of existing infrastructure.

Used in combination with IRT's extensive range of fibre transmitters / receivers and interface modules, a myriad of different signals types can be sent down the one fibre. With IRT's eight channel fibre multiplexer/demultiplexer modules, for example, up to sixty four SDI signals can be sent down a single fibre. Or up to two hundred and fifty six ASI signals can be sent when also used with IRT's ASI multiplexer/demultiplexer modules.

The OFM-4268 is designed to mount in IRT's 1RU or 4000 series 3RU frame.

TECHNICAL SPECIFICATIONS

Type	8 Channel CWDM multiplexer.
Wavelengths	1470 nm, 1490 nm, 1510 nm, 1530 nm, 1550 nm, 1570 nm, 1590nm and 1610nm.
Fibre	Single mode.
Connector Type	SC/PC.
Maximum Power Handling	300 mW.
Channel Passband	> 13 nm (typically 15nm).
Insertion loss	< 2.5 dB (< 2.0 dB typically).
Passband Ripple	< 0.5 dB (typically 0.3 dB).
Uniformity	< 1.5 dB.
Return Loss	> 45 dB (typically 50 dB).
Directivity	> 55 dB.
Channel Isolation	> 30 dB (typically 40 dB).
Non Adjacent Channel Isolation	> 45 dB (typically 50 dB).
Polarization Dependent Loss	< 0.2 dB.
Other:	
Temperature range	-10 - 70° C ambient.
Mechanical	Suitable for mounting in IRT 19" 1RU or 4000 series 3RU rack chassis with input and output connections on the rear panel.
Finish	Grey background, black lettering & red IRT logo.
Front panel	
Rear assembly	Common connection mounted on bracket from main PCB.
Dimensions	6 HP x 3 U x 220 mm IRT Eurocard.

