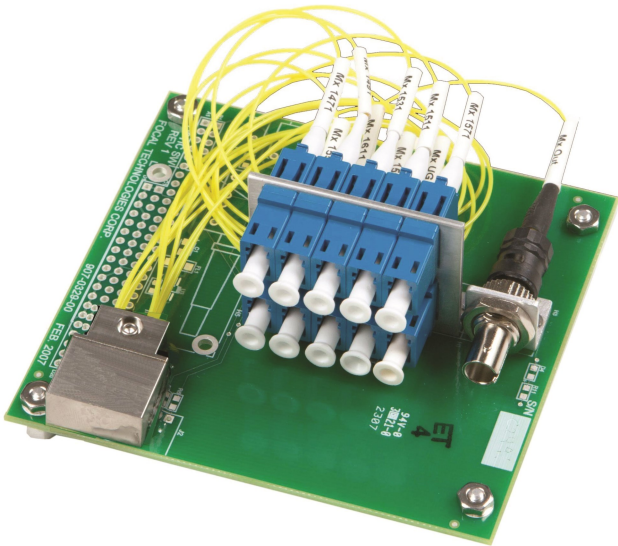


# Coarse Wave Division Multiplexers

Model 907-CWDM

Focal Technologies Corporation, a Moog Inc. company, has over 30 years of expertise in supplying standard and custom marine products for harsh environments and is a leading manufacturer of high performance and high quality multiplexers. Contact Focal for any assistance in selecting the best solution for your requirements.



The model 907 series of CWDMs combine multiple media converters or multiplexer motherboards onto a single fiber-optic cable. All CWDM cards are ITU-T G.694.2 compliant, passive (no electrical power required), and perform as both an optical multiplexer and optical de-multiplexer, allowing for bidirectional communication. They are form factor compatible with the 907 products and can be added to an existing stack, providing an upgrade path for additional functionality.

A 2-channel with a 1310/1550 nm bypass, 4-channel and 8-channel versions are available. The 2-channel version allows for simple expansion of an existing 1310/1550 nm Focal™ system.

## Features

- Modular design
- Passive optics
- Compatible with all Model 907 products
- Available in 2-channel with bypass (907-CWDM), 4-channels (907-CWDM-4), or 8-channels (907-CWDM-8)
- Rugged design for harsh environments, including pressure tolerant version

## Benefits

- Reduces the number of fibers required in cables and rotary joints
- Modular format allows for future upgrades and channel expansion

## Applications

- Modular subsystems for Remote Operated Vehicles (ROVs)
- Multiple HD camera systems
- Imaging sonar systems
- Defense and security networks

# Specifications

Optical	
<b>Fiber Type</b>	Singlemode (9/125 $\mu\text{m}$ ) Multimode (50/125 $\mu\text{m}$ )
<b>Center Wavelength</b>	2-channel: 1310/1550, 1471, 1491 nm 4 channel: 1471, 1491, 1511, 1531 nm 8-channel: 1471, 1491, 1511, 1531, 1551, 1571, 1591, 1611 nm
<b>Channel Spacing</b>	20 nm
<b>Isolation</b>	> 30 dB
<b>Return Loss</b>	> 45 dB
<b>Insertion loss</b>	2-channel: < 2.5 dB 4 channel: < 2.5 dB 8-channel: < 3 dB
<b>Options</b>	Other wavelengths available, optional bypass port

Mechanical	
<b>Dimensions</b>	PC/104 (form-factor only) 3.550" x 3.775"
<b>Weight</b>	< 120 g (0.25 lb)
<b>Options</b>	Custom Enclosures, other form-factors available
Connectors	
<b>Common</b>	ST standard
<b>To Cards</b>	LC standard
<b>Options</b>	FC/PC
Environmental	
<b>Temperature</b>	0°C to +70°C (operational) -40°C to +85°C (storage)
<b>Humidity</b>	85% RH, non-condensing
<b>Vibration</b>	5 g, 25 - 1000 Hz, 3 axes
<b>Shock</b>	30 g, 11 ms, half-sine, 3 axes
<b>Options</b>	6000 psi pressure tolerant, extended temperature, stress screened or qualified

All specifications and information are subject to change without notice. Please contact Focal for the latest updates.

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