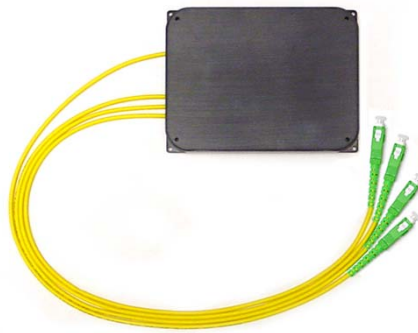




WDM-131415 | 1310nm/1490nm/1550nm Multiplexer

## WDM-131415 | 1310nm/1490nm/1550nm Multiplexer



The QAMnet WDM-131415 series multiplexer utilizes Wavelength Division Multiplexing (WDM) technology to separate or combine 1310nm, 1490nm and 1550nm wavelength channels. In the standard HFC system, 1310nm channel is used for return path, 1550nm wavelength is used for forward path and 1490nm is typically used for GEAPON signals. WDM-131415 multiplexer features low insertion loss, high isolation and stable temperature operation.

WDM-131415 is available in either a rugged module with SC/APC connectors or unpackaged device form. The module housing is fabricated with machined aluminum.

### Features

- Low insertion loss
- High isolation value of 30dB
- Combine/separate three wavelength 1550nm, 1490nm and 1310nm
- Device or rugged construction module
- Operating temperature range -30 °C to + 70 °C

### Ordering Information

- WDM-131415-x
- x: m (module housing)  
d (unpackaged device)



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## Technical Specifications

Model Number	WDM-131415
Configuration	1 Input / 3 Output
Center Wavelengths	1310nm/1490nm/1550nm
Passband Wavelength	1490nm $\pm$ 10nm
Reflection Wavelength	1310nm $\pm$ 20nm / 1550nm $\pm$ 20nm
1490nm Band Insertion Loss	0.6 dB Typical Device, 1.2dB Module
1310nm Band Insertion Loss	0.4 dB Typical Device, 1.0dB Module
1550nm Band Insertion Loss	0.6 dB Typical Device, 1.2dB Module
1490nm Band Isolation	$\geq$ 35 dB
1310nm Band Isolation	$\geq$ 25 dB
1550nm Band Isolation	$\geq$ 20 dB
Directivity	$\geq$ 55 dB
Return Loss	$\geq$ 50 dB
Polarization Dependent Loss	$\leq$ 0.10 dB
Wavelength Thermal Stability	$\leq$ 3pm/°C
Insertion Loss Thermal Stability	$\leq$ 0.005 dB /°C
Power Handling	$\leq$ 27 dBm

## Environment / User Interface

Operating Temperature Range	-10°C to +70°C
Storage Temperature Range	-40°C to +85°C
Connectors	SC/APC or customer specified
Device Dimensions	2" (L) x 0.2" ( $\Phi$ )
Housing Dimensions	Type B: 4.72" (L) x 3.55" (W) x 0.55" (H)
Fiber Patchcord	3mm, 0.5 meter length



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