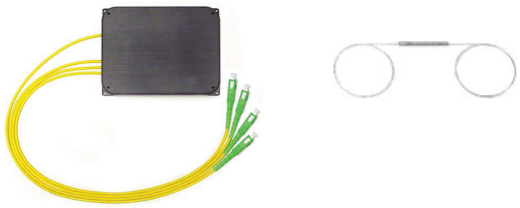
RFoG/GEPON WDM Module

The QAMnet WDM-RF-GP series multiplexer utilizes Wavelength Division Multiplexing (WDM) technology to separate or combine 1310 nm/1490 nm wavelengths channel with 1550 nm and 1590 nm wavelength signals in RFoG.



Product Description

The QAMnet WDM-RF-GP series multiplexer utilizes Wavelength Division Multiplexing (WDM) technology to separate or combine 1310 nm/1490 nm wavelengths channel with 1550 nm and 1590 nm wavelength signals in RFoG. In the standard HFC system, the 1310 nm channel is used for return path, the 1550 nm wavelength is used for forward path and the 1490 nm is typically used for GEPON signals. The WDM-RF-GP multiplexer features low insertion loss, high isolation and a stable temperature operation level.

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

Features

- Low insertion loss
- High isolation value of 30 dB
- Broad wavelength window operation
- Rugged construction (module type)
- Operating temperature range -20°C to +55°C

Applications

✓ HFC ✓ FTTH ✓ RFoG ✓ Deep Fiber Applications

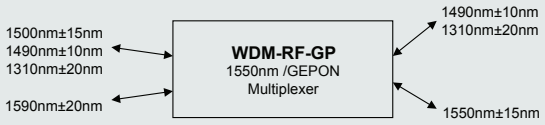
PRODUCT SPECIFICATIONS

Optical Specifications

Insertion Loss	0.5 dB typ. (device); 1.1 dB typ. (module)
Isolation	
Transmitting Isolation (1550 nm Forward Transmitter to 1490 nm/1310 nm GEPON)	17 dB typ.
Receiving Isolation (1490 nm/1310 nm GEPON to 1550 nm Forward Receiver)	35 dB min., 40 dB typ.
Polarization Dependent Loss	0.1 dB max.
Return Loss	50 dB min.
Power Handling	500 mW max.

Mechanical Specifications

Operating Temperature Range	-20°C to +55°C
Connectors	SC/APC or customer specified
Device Dimensions	2.95" (L) x 0.15" ⌀
Housing Dimensions	Type A: 7" (L) x 3" (W) x 0.62" (H) Type B: 4.72" (L) x 3.55" (W) x 0.55" (H)
Fiber Patchcord	3mm, 0.5 meter length
Housing	Machined Aluminum (module)



Ordering Information

	WDM-GP-RF-x
x	d (unpackaged device), m (module)

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