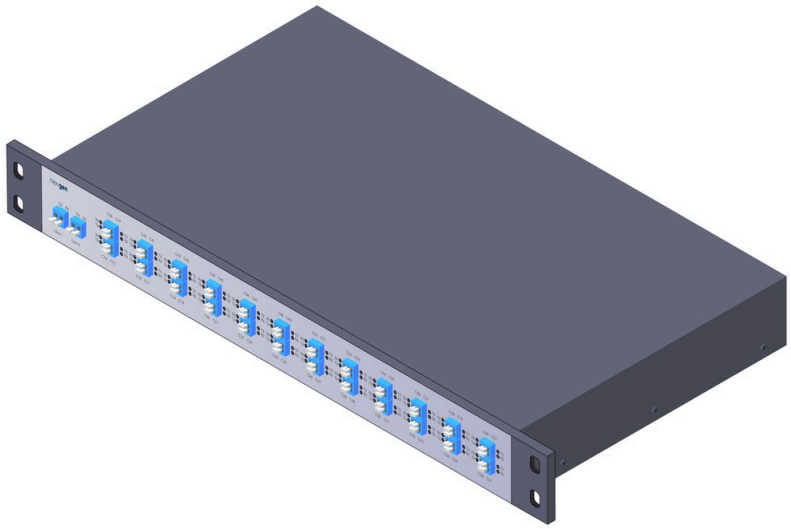
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OTN SYSTEMS WDM PLATFORMS

AAWG DWDM Mux/Demux Module

The AAWG is an athermal (heatless) array waveguide grating DWDM multiplexer/demultiplexer. Built on silicon-substrate waveguide grating technology with a passive thermal-compensation package, it holds accurate channel coupling across its full operating temperature range with no power, software or active temperature control. DWDM only, no CWDM variant exists for this product.



HIGHLIGHTS

No power, no control loop

Passive thermal compensation holds channel accuracy without electronics, software or active temperature control.

40 to 96 channels

100GHz grid at 40/48 channels, or 50GHz grid at 80/96 channels.

Flat-top or Gaussian passband

Flat-top for wavelength-drift tolerance, Gaussian for lower insertion loss (100GHz only).

Low insertion loss

As low as ≤4.5dB (100GHz Gaussian) depending on grid/passband selection.

High stability & reliability

Conforms to ITU-T G.694.1 and Telcordia GR-1209/GR-1221.

RoHS-6 compliant

Lead-free construction, two package options (ABS box or 1U rackmount).

FORMAT

ABS MODULE | 1U

SPECIFICATIONS

Optical	
Wavelength Accuracy	±0.04nm
Insertion Loss Uniformity	≤1.5dB
Return Loss	≥40dB
Polarization-Related Loss	≤0.5dB
Environmental & Mechanical	
Operating Temperature	−5°C–+65°C
Storage Temperature	−40°C–+85°C
Compliance	ITU-T G.694.1 · Telcordia GR-1209-CORE · Telcordia GR-1221-CORE · RoHS-6
Package Type	ABS box · 1U 19″ rackmount

VARIANT OPTIONS

GRID	PASSBAND	CHANNELS	-1dB BW	-3dB BW	INSERTION LOSS	ADJACENT ISOLATION	NON-ADJ. ISOLATION	PMD
50GHz	**Flat-Top**	80	≥0.18nm	≥0.28nm	≤6.5dB	≥25dB	≥25dB	≤1.0ps
50GHz	**Flat-Top**	96	≥0.18nm	≥0.28nm	≤6.5dB	≥25dB	≥25dB	≤1.0ps
100GHz	**Flat-Top**	40	≥0.4nm	≥0.6nm	≤5.5dB	≥15dB	≥30dB	≤0.5ps
100GHz	**Flat-Top**	48	≥0.4nm	≥0.6nm	≤5.5dB	≥15dB	≥30dB	≤0.5ps
100GHz	**Gaussian**	40	≥0.2nm	≥0.4nm	≤4.5dB	≥15dB	≥30dB	≤0.5ps
100GHz	**Gaussian**	48	≥0.2nm	≥0.4nm	≤4.5dB	≥15dB	≥30dB	≤0.5ps

ORDERING INFORMATION

NAME	AAWG DWDM Mux/Demux Module
DESCRIPTION	AAWG, athermal (heatless) array waveguide grating DWDM multiplexer/demultiplexer, silicon-substrate waveguide grating with passive thermal compensation (no power, software or active temperature control). DWDM only, no CWDM variant.
PART NUMBER	WDM-AAWG-**{Grid}**-**{Passband}**-**{Channels}**-**{Format}**

{Grid}	50 (50GHz) · 100 (100GHz), required
{Passband}	F (Flat-top) · G (Gaussian, 100GHz only), required
{Channels}	50GHz: 80 · 96 100GHz: 40 · 48, see Variant Options table above, required
{Format}	ABS (ABS box) · 1U (1U rackmount), required

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