ENABLENCE TECHNOLOGIES’ Atherm MUX/DeMUX devices are based on silica-on-silicon arrayed-waveguide grating (AWG) technology. The AWG circuit chips, which are planar lightwave circuits, fabricated using Enablence’s patented CVD systems are packaged using athermalization techniques making them insensitive to changing thermal environments.

**BENEFITS**
- Smaller form factor
- Low insertion loss
- High channel-to-channel uniformity
- Low crosstalk
- Accurate channel alignment to the ITU grid
- Athermal device operation; no thermal control elements or feedback control loop required

**FEATURES**
- Channel Count 4 to 48 channels
- Channel Spacing: 50, 100 or 200 GHz
- ITU Grids in L, C, O and E-band

**APPLICATIONS**
- DWDM Transmission
- Wavelength Routing
- Optical Add/Drop

www.enablence.com
The transmission characteristics of Enablence Athermal AWGs are the same as our standard APMUX1100 and APDMUX1100 products with a wavelength stability of better than ± 0.04 nm.

Enablence AWG technology exhibits exceptional material uniformity, low propagation loss, and low polarization dependence. Athermal AWG modules offer low insertion loss, accurate channel alignment to the ITU grid, low crosstalk and high channel-to-channel uniformity.
Shift in center wavelength for -5C, 20C and 65C

Port #

Shift in center wavelength (nm)

-0.2  -0.15  -0.1  -0.05  0  0.05  0.1  0.15  0.2

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30

-5C  65C  20C

Spectrum of 100GHz Flat-Top Athermal AWG

For more information visit www.enablence.com

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