

Features

- Low Insertion Loss
- Wide pass band
- Low PDL
- High Stability and reliability
- High Channel Isolation

Applications

- WDM Network
- Telecommunication
- Access Network



Technical parameter

Absolute Maximum Ratings

| Parameter | Conditions | Specifications | | Unit |
|-----------------------|--------------------------------------|----------------|------|------|
| | | Min. | Max. | |
| Operating Temperature | Non-Condensing Environment | -5 | 65 | °C |
| Operating Humidity | | 5 | 85 | %RH |
| Storage Temperature | Device Not Powered on Heater Element | -40 | 85 | °C |
| Storage Humidity | Device Not Powered on Heater Element | 5 | 95 | %RH |

Optical Specifications

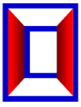
| Parameters | Condition | Specs | | | Units |
|------------------------|---|--------|------|-----|-------|
| | | MIN. | Typ. | MAX | |
| Number of Channels | 96 | 96 | | | CH |
| Number Channel Spacing | 50GHz | 50 | | | GHz |
| Center Wavelength | ITU frequency, measured in vacuum. | C-band | | | nm |
| Clear Channel Passband | Centered at each ITU channel frequency | ±6.25 | | | GHz |
| Wavelength Stability | Maximum range of the wavelength error of all channels and temperatures in average polarization. | ±0.05 | | | nm |
| -1dB Channel Bandwidth | Clear channel bandwidth defined by passband shape. For each Channel. | 0.20 | | | nm |
| -3dB Channel Bandwidth | Clear channel bandwidth defined by passband shape. For each channel. | 0.28 | | | nm |



| | | | | | |
|---|--|-----|-----|------|-------|
| Optical Insertion Loss at ITU grid | Defined as the minimum transmission at ITU wavelength for all channels. For each channel, at all temperatures and polarizations with connectors. | | | 12.0 | dB |
| Adjacent Channel Isolation | Ratio of peak transmission to the maximum transmission over both adjacent ITU wavelengths | 25 | | | dB |
| Non-Adjacent, Channel Isolation | Ratio of peak transmission in channel passband to the maximum transmission over all non-adjacent ITU wavelength | 30 | | | dB |
| Total Crosstalk | Ratio of power in channel to power in all other ITU wavelength | 20 | | | dB |
| Insertion Loss Uniformity | The difference between the maximum and minimum of passband across all channels | | 0.8 | 1.3 | dB |
| Directivity(Mux Only) | Ratio of reflected power out of any channel(other than channel n)to power in from the input channel n | 40 | | | dB |
| Optical Return loss | Input & output ports | 45 | | | dB |
| Polarization Dependent Loss in Clear Channel Band | Worst-case value measured in ± 20 GHz around ITU wavelength for each port. | | 0.3 | 0.5 | dB |
| Polarization Mode Dispersion | Maximum differential group delay within reference ITU wavelength | | | 1.0 | ps |
| Chromatic Dispersion | Maximum change rate of group delay versus wavelength within reference ITU wavelength | -20 | | +20 | ps/nm |
| Maximum Input Optical Power | Maximum continuous optical power | | | 500 | mW |

Mechanical Dimensions, Fiber Coding and Connector Specifications

| | | |
|--------------|--|--|
| Dimensions | 120 x 70 x 10.5 mm | |
| Fiber Type | Common SMF-28e fiber with 900um loose tube/ SMF-28e 加 900um 松套管 Channels: SMF-28e Ribbons | |
| Fiber Length | Common | 1000mm \pm 50mm with 900um loose tube/输入纤长 1000mm \pm 50mm 900um 套管 |
| | Channels | Ribbon 500mm \pm 20 mm and Fan out 500mm \pm 30mm with 900um loose tube /输出带纤 500mm \pm 20 mm, 加分支器纤长 500mm \pm 30mm |



| | | |
|--------------------------------|---|--------|
| Common | Color | white |
| Ribbon Identification | Label with ribbon number will be placed close to end-points | |
| Connector Options | Common | LC/UPC |
| | Channels | LC/UPC |
| Fiber Identification in Ribbon | 1 : Blue ; 2 : Orange ; 3 : Green ; 4 : Brown ; 5 : Grey ; 6 : White ; 7 : Red ; 8 : : Black ; 9 : Yellow ; 10 : Purple ; 11 : Pink ; 12 : Aqua | |
| Customized design available | | |

Ordering Information: HC-AWG-A-B-C-D-E-F-G-H-J

| A | B | C | D | E | F | G | H | J |
|-------------------|-------------|--------------------|-----------|-------------|------------|-----------|----------------------------|------------------|
| Type | Band | Number of Channels | Spacing | 1st Channel | Chip Type | Package | Fiber Length(Total Length) | In/Out Connector |
| AAWG=Athermal AWG | C=C-Band | 16=16-CH | 1=100G | C62=C62 | G=Gaussian | M=Module | 1=0.5m | 0=None |
| | L=L-Band | 32=32-CH | 2=200G | H61=H61 | F=Flat Top | R=Rack | 2=1m | 1=FC/APC |
| | D=C+L-Band | 40=40-CH | 5=50G | C60=C60 | | X=Special | 3=1.5m | 2=FC/PC |
| | X=Customize | 48=48-CH | X=Special | H59=H59 | | | 4=2m | 3=SC/APC |
| | | 96=96-CH | | X=special | | | X=Specify | 4=SC/PC |
| | | X=Special | | | | | | 5=LC/APC |
| | | | | | | | | 6=LC/PC |
| | | | | | | | | 7=ST/UPC |
| | | | | | | | | X=Specify |

Note: Typical channel plan: ITU wavelengths 50G H13(1566.72nm)-C61(1528.77nm).