

AWG CWDM4 module

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Description

The AWG CWDM4 module of HYC is based on silicon chip technology. It has compact, easy-to-assemble structure and good reliability. It can replace TFF (thin film filter) type CWDM. It is widely used in 40G and 100G high-speed active optical modules for optical signal Mux and Demux, such as QSFP+, QSFP28, etc.

Features

- Low loss and good uniformity
- Compact structure、 Planar waveguide technology
- High reliability and stability
- Compliant with RoHS, TelcordiaGR-1221 and GR-1209 standards

Application

- QSFP+
- QSFP28



Specification

Parameter	Unit	Mux	Demux
Channels	CH	4	
Channel spacing	nm	20	
Center wavelength	nm	1271、1291、1311、1331	
Center wavelength accuracy @1dB	nm	±1	
Bandwidth @1dB	nm	≥10	≥12
Bandwidth @3dB	nm	≥15	
Insertion loss @CWL	dB	≤3.5	≤2.5
Ripple @ITU±5nm	dB	≤1.0	
Channel uniformity	dB	≤1.0	
Polarization dependent loss @CWL	dB	≤0.5	
Return loss	dB	≥40	
Isolation within Adjacent Channel @ITU±6.5nm	dB	NA	≥20
Isolation within Non Adjacent Channel @ITU±6.5nm	dB	NA	≥30
Temperature dependent loss	dB	≤0.5	
Channel Pitch	um	500	250
Input/output Side	/	Identical side	Opposite side
Chip size	mm	6.6X2.7、8.2X3.9	9.6X2.2、9.8X1.6
Fiber length	m	Customer defined	
Polish angle	°	NA	41±1