

Features

- 4x25 Gbps LANWDM AWG Chips With and Without Fiber Pigtail
- Low Insertion Loss
- High Reliability
- Custom Design: chip size, optical specifications, AR coating, polishing angles
- RoHS* Compliant
- Datacom 100G LR4 Applications

Mechanical Specification¹

Mechanical	Size
Chip Size	4 x 10 mm
Pitch	750 μ m

1. Customized size and pitch available upon request.

Optical Specifications

Parameter	Conditions	Units	Min.	Typ.	Max.
Number of Channels (CH)	—	—	—	4	—
Spectral Region (SR)	O-Band	nm	1260	—	1360
Channel Wavelengths (λ_c)	measured @ 3 dB center CH1 CH2 CH3 CH4	nm	—	1295.56 1300.05 1304.58 1309.14	—
Channel Spacing (CS)	ITU-G.694.1	GHz	—	800	—
Passband (PB)	—	nm	—	+/-1	—
Center Wavelength Accuracy ($\Delta\lambda$)	—	nm	—	+/-0.5	—
Insertion Loss ² (IL)	measured within PB	dB	—	—	3.0
1dB Bandwidth (δ_{1dB})	1 dB down from minimum IL	nm	—	2.8	—
Adjacent Channel Isolation (AX)	measured within PB	dB	20	—	—
Non-adjacent Channel Isolation (NX)	measured within PB	dB	26	—	—
Polarization Dependent Loss (PDL)	over all polarization states	dB	—	—	0.5
Polarization Mode Dispersion (PMD)	guaranteed by design	ps	—	—	0.15

2. Insertion loss will be 0.5 dB higher for the fiber pigtail, from the optical specification.

Ordering Information

Part Number	Package
A0425-DLX-C-x ³	polished chips
A0425-DLX-P-x ³	pigtailed chips

3. The -x variant will be used for customer specific specifications. Contact MACOM customer support for ordering options.

Absolute Maximum Ratings

Parameter	Absolute Maximum
Power	300 mW, each facet
Operating Temperature	-5°C to +75°C
Storage Temperature	-40°C to +85°C

¹ * Restrictions on Hazardous Substances, European Union Directive 2011/65/EU.

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