



# 100 GHz DWDM OADM SPLICE TRAY MODULE

## PRODUCT OVERVIEW

Champion ONE's 100/200GHz 1x2 wavelength multiplexer uses thin film coating technology and non-flux metal bonding micro-optics packaging to achieve ITU wavelength add/drop in a passive optical network. Key features and benefits include low insertion loss, a wide pass band, high channel isolation, an epoxy-free optical path, and high stability and reliability. This module is small enough to fit in most commercially available splice trays.\*

**PART NUMBER: DWO-E 18EO-NOXX-00-2**  
DWDM OADM ITU GHXX 100GHZ SPACING 900µM LOOSE TUBE, 2M

Parameter	Value
Channel Wavelength	ITU ch. 20–61
Channel Spacing (GHz)	100
Channel Passband Bandwidth (nm, at -0.5dB)	>0.3
Pass Channel Insertion Loss (dB)	≤ 1.0
Reflection Channel Insertion Loss (dB)	≤ 0.6
Channel Ripple (dB)	≤ 0.3
Adj/ Non-Adj Channel Isolation (dB)	≥ 30 / ≥ 40
Insertion Loss Temperature Sensitivity (dB/°C)	< 0.005
Wavelength Temperature Shifting (nm/°C)	≤ 0.002

Parameter	Value
PDL (dB)	< 0.1
PMD (ps)	< 0.1
Directivity (dB)	> 50
Return Loss (dB)	> 45
Max Power Handling (mW)	300
Operating Temperature (°C)	-10 to 75
Storage Temperature (°C)	-40 to 85
Package Dimension (mm)	5.5 x 38

Supported Wavelengths/Channels	Wavelength	ITU Channel	Wavelength	ITU Channel	Wavelength	ITU Channel	Wavelength	ITU Channel	Wavelength	ITU Channel	Wavelength	ITU Channel
	1561.42	20	1555.75	27	1550.12	34	1544.53	41	1538.98	48	1533.47	55
1560.61	21	1554.94	28	1549.32	35	1543.73	42	1538.19	49	1532.68	56	
1559.79	22	1554.13	29	1548.51	36	1542.94	43	1537.40	50	1531.90	57	
1558.98	23	1553.33	30	1547.72	37	1542.14	44	1536.61	51	1531.12	58	
1558.17	24	1552.52	31	1546.92	38	1541.35	45	1535.82	52	1530.33	59	
1557.36	25	1551.72	32	1546.12	39	1540.56	46	1535.04	53	1529.55	60	
1556.55	26	1550.92	33	1545.32	40	1539.77	47	1534.25	54	1528.77	61	

\*For best results, measure splice trays thoroughly before ordering.

## SERVICE AND SUPPORT

Running a network or selling network services and products can be a highly competitive endeavor. To help differentiate your business and enable you to provide more cost effective infrastructure, you require a partner that provides competitive pricing and vertical market expertise. At Champion ONE we understand your needs. We leverage our skills and relationships to:

- Provide network design services and help you explore alternative network designs you may not have considered
- Provide technical and sales support when you need it
- Accept orders for same day shipment up to 3:00 PM EST
- Offer some of the longest warranties in the industry
- Offer a 30-day return policy
- Build a long- term supplier partnership with you

You can rely on Champion ONE, not only for the highest levels of availability for the products you need, but the technical support, customer service and cost consideration you deserve. Our goal is your complete satisfaction.

## THE CHAMPION ONE COMMITMENT



For over twenty years, we at Champion ONE have been delivering great value to our customers through high-quality products at competitive prices. As one of the leading suppliers of compatible optical transceivers and a major supplier of optical networking solutions, we take great pride in building long-term relationships as a trusted partner. In this spirit, everything we bring to market bears the Champion ONE Shield™, which strengthens this trust through five core promises: Performance, Availability, Compatibility, Protection, and Value.

## GLOBAL HEADQUARTERS

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