

4 Channel 100GHz Colorless AWG DMUX
for Extended L-Band Operation
Nortel Networks

JDS Uniphase Part Number:**AWGWABD0B7001**

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Issue Date:

April 26, 2002

Revision:

Draft 1.0

Identification information

<i>Component</i>	<i>Part Number</i>	<i>Serial Number</i>
4 Channel 100GHz Colorless AWG DMUX for Extended L-Band Operation	AWGWABD0B7001	LF007885

Input Fiber Connection Configuration

<i>Input Channel Number</i>	<i>Color</i>
1	Black
2	White

Output Fiber Connection Configuration

<i>Output Channel Number</i>	<i>Color</i>
1	Red
2	Blue
3	Green
4	Yellow

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Issue Date:

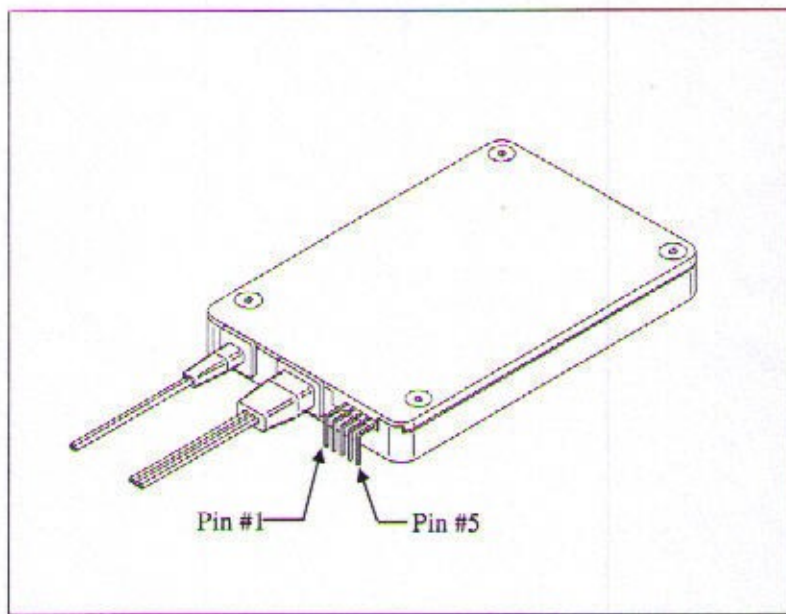
April 26, 2002

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Electrical Connections

Connector Pin No.	Description
1	Heater
2	Heater
3	Not Connected
4	RTD 10 kOhm
5	RTD 10 kOhm



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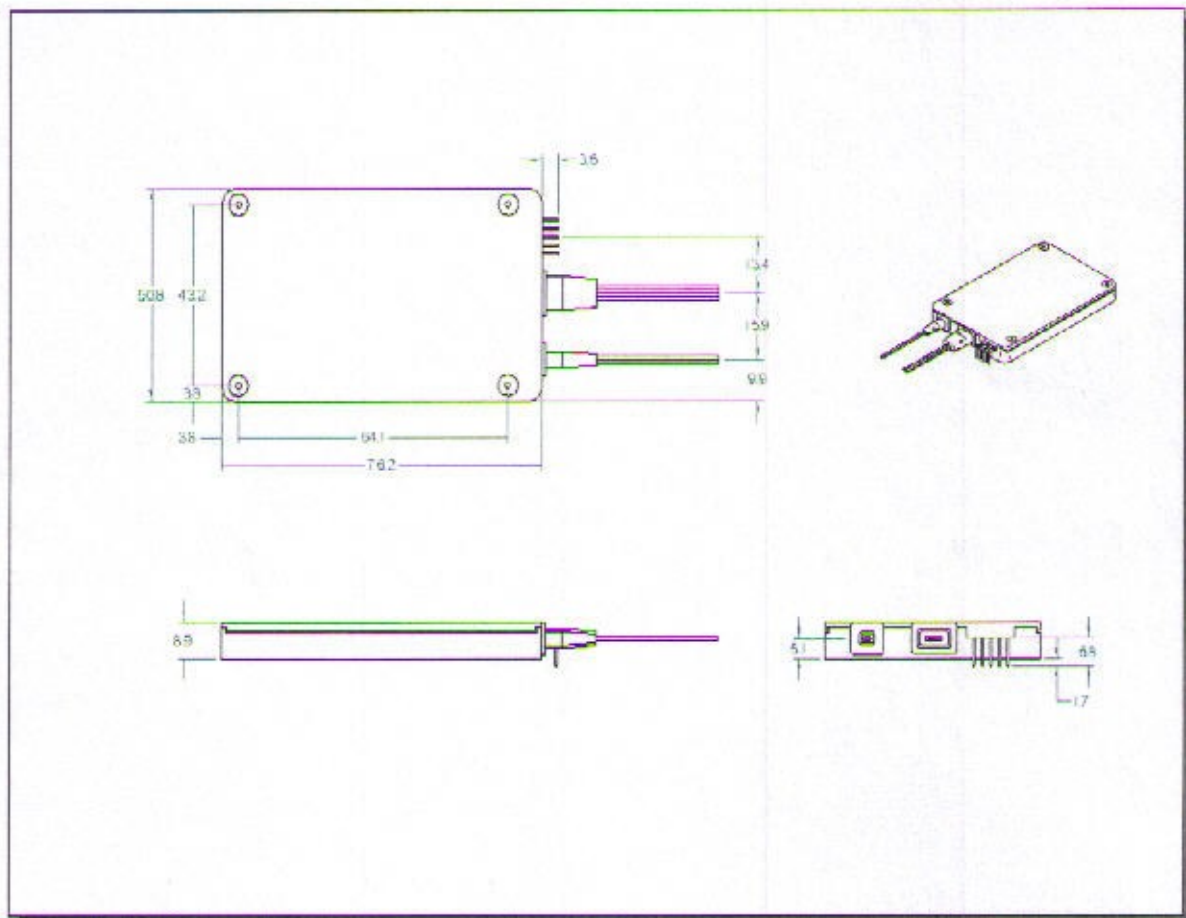
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Package Dimensions



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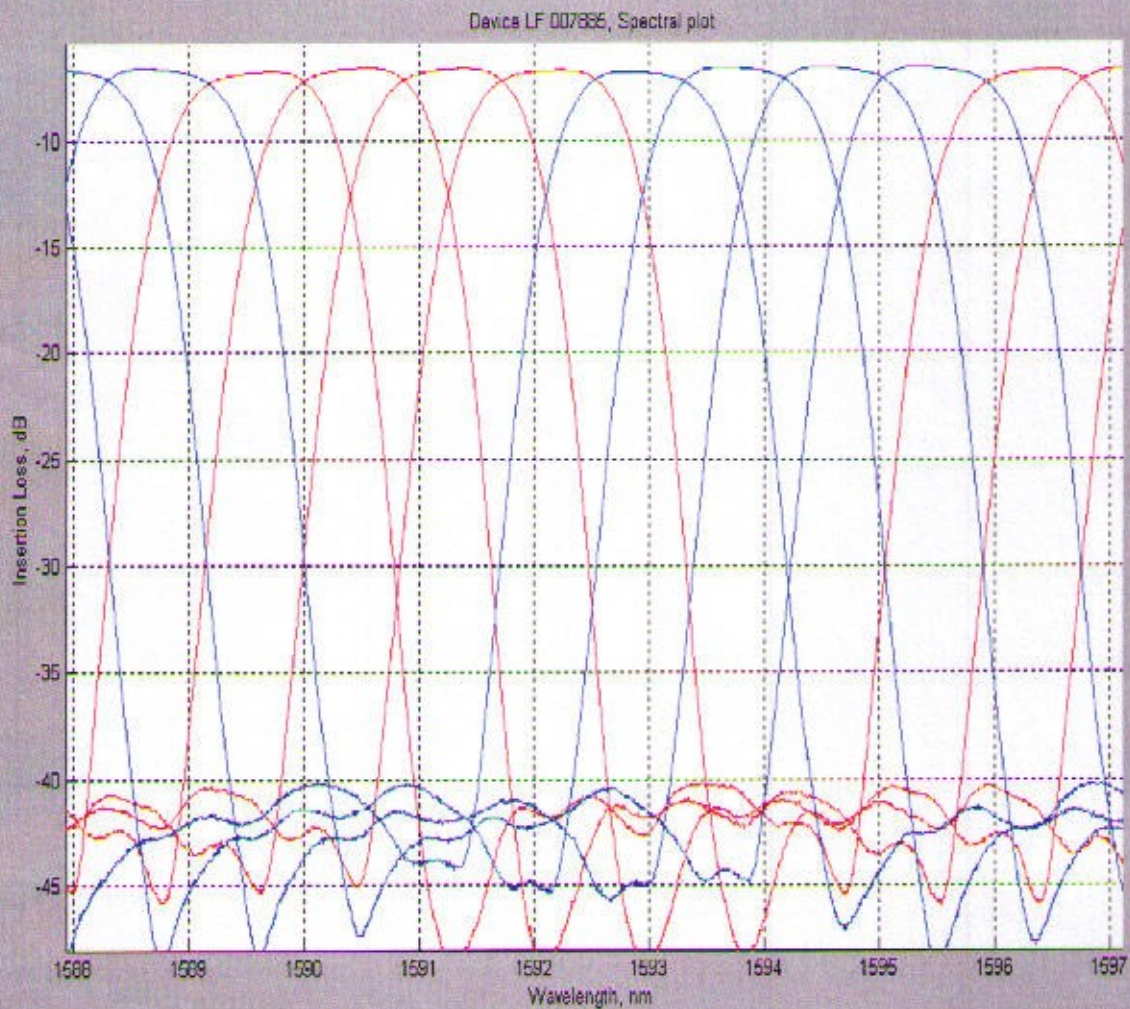
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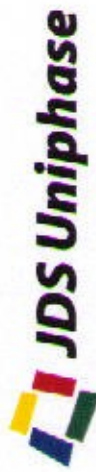
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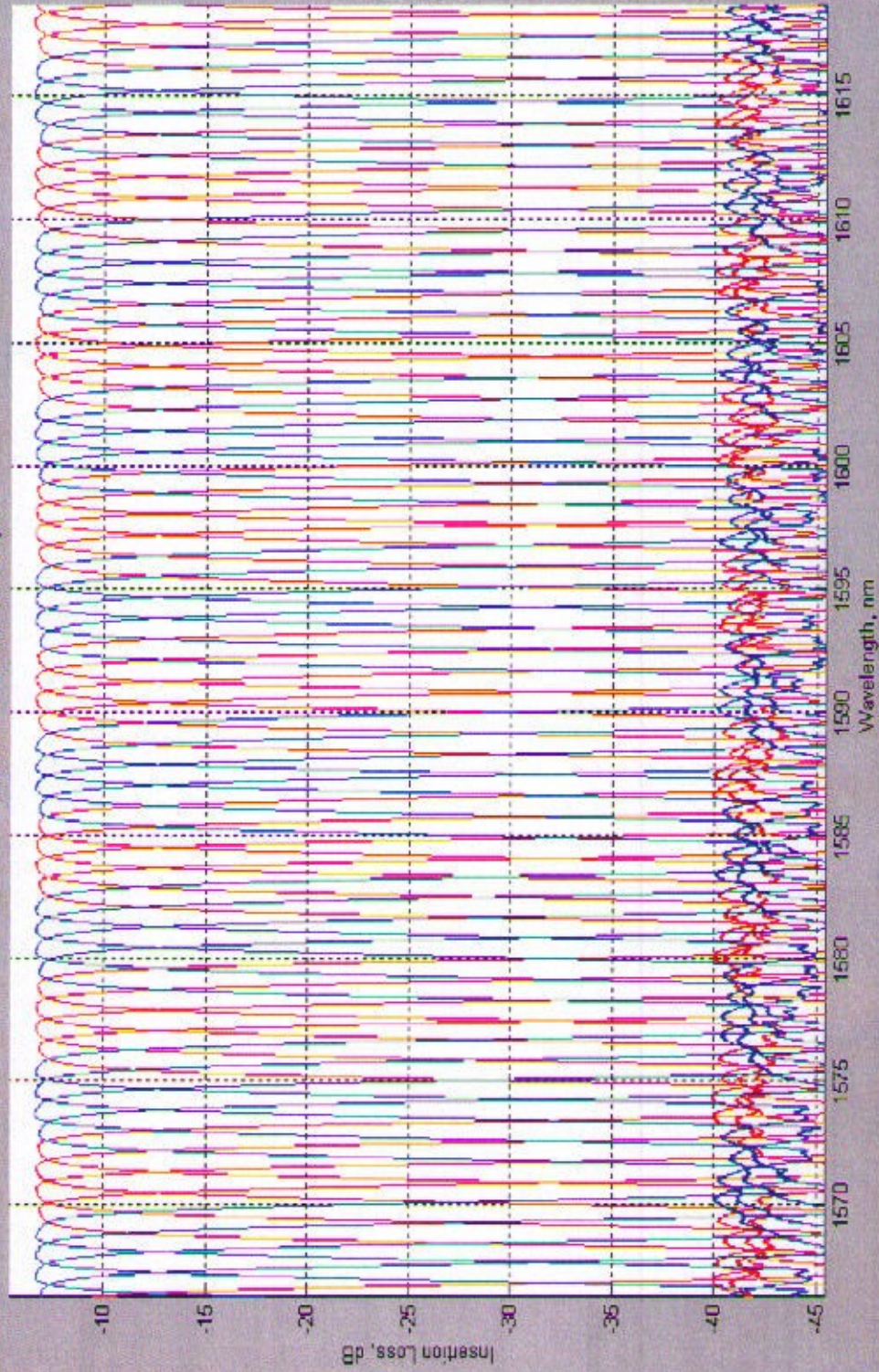
Optical Performance



Inspection Report



Device LF 007885, Spectral plot



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Inspection Report



Device		Ambient temperature										25.0
Date		Device temperature										73.9
Input												
Channel	Nominal Center, nm	Actual Center, nm	Center Error, GHz	0.5 dB Bandwidth h, GHz	1 dB Bandwidth h, GHz	3 dB Bandwidth h, GHz	10 dB Bandwidth h, GHz	IL at Nominal Center, dB	POL, dB	IL ripple slope, dB/THz	PDM (3 db centers), pm	
1	1589.568	1589.565	0.3	108.2	110.9	158.8	236.3	-7.17	0.70	14.2	29.4	
2	1590.411	1590.411	0.0	110.1	110.1	158.4	236.5	-7.00	0.67	12.8	30.7	
3	1591.255	1591.262	-0.8	109.8	110.6	158.6	235.8	-7.03	0.71	14.4	32.9	
4	1592.100	1592.107	-0.8	110.2	110.2	158.5	235.9	-7.13	0.78	13.0	35.2	
		Mean	-0.3	109.6	110.4	158.6	236.1	-7.08	0.72	13.6	32.1	
		Worst	0.8	108.2	110.1	158.4	236.5	-7.17	0.78	14.4	35.2	
		Variation	1.1	2.0	0.8	0.4	0.7	0.16	0.12	1.7	5.8	
1543.767	1550.147	1556.580	1563.038	1576.610	1576.206	1582.858	1589.555	1596.330	1603.153	1610.033	1616.972	
1544.587	1550.973	1557.410	1563.901	1570.446	1577.045	1583.701	1590.411	1597.182	1604.006	1610.891	1617.835	
1545.414	1551.802	1558.243	1564.735	1571.284	1577.888	1584.545	1591.262	1598.033	1604.862	1611.751	1618.698	
1546.237	1552.628	1559.071	1565.569	1572.120	1578.727	1585.389	1592.107	1598.883	1605.717	1612.508	1619.559	
		SPT, °C	71.04	71.90	71.90	72.78	73.72	74.66	75.58	76.64		
		CE, GHz	2.5	1.9	1.9	1.2	0.6	0.2	0.7	1.3		
Device		Ambient temperature										25.0
Date		Device temperature										76.1
Input												
Channel	Nominal Center, nm	Actual Center, nm	Center Error, GHz	0.5 dB Bandwidth h, GHz	1 dB Bandwidth h, GHz	3 dB Bandwidth h, GHz	10 dB Bandwidth h, GHz	IL at Nominal Center, dB	POL, dB	IL ripple slope, dB/THz	PDM (3 db centers), pm	
1	1592.946	1592.945	0.1	104.8	110.5	158.0	234.7	-7.23	0.74	12.1	45.4	
2	1593.793	1593.792	0.1	101.5	109.5	157.2	234.9	-7.03	0.73	14.0	47.1	
3	1594.641	1594.641	0.0	102.0	109.0	157.3	234.1	-7.00	0.70	12.2	48.2	
4	1595.489	1595.488	0.2	102.3	109.6	157.3	233.8	-7.08	0.81	12.7	51.5	
		Mean	0.1	102.6	109.6	157.5	234.4	-7.08	0.74	12.7	48.3	
		Worst	0.2	101.5	109.0	157.2	234.9	-7.23	0.81	14.0	51.5	
		Variation	0.2	3.3	1.5	0.9	1.1	0.23	0.12	2.0	5.0	
1541.166	1547.046	1553.439	1559.887	1572.945	1572.945	1579.556	1586.222	1592.945	1599.725	1606.562	1613.457	
1541.364	1547.866	1554.265	1560.717	1573.781	1573.781	1580.396	1587.066	1593.792	1600.576	1607.415	1614.315	
1542.343	1548.693	1555.094	1561.549	1574.620	1574.620	1581.238	1587.911	1594.641	1601.428	1608.272	1615.174	
1543.162	1549.515	1555.921	1562.378	1575.456	1575.456	1582.077	1588.754	1595.488	1602.277	1609.126	1616.032	
		SPT, °C	68.54	70.36	70.36	72.28	74.21	76.21	78.27	80.37		
		CE, GHz	2.6	1.9	1.9	1.3	0.6	0.2	0.7	1.4		

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