

DWDM Sources... Page 5 of 8

Tunable Lasers

Femtosecond Laser

WDM Laser Banks

Benchtop
Laser Sources

HeNe Lasers

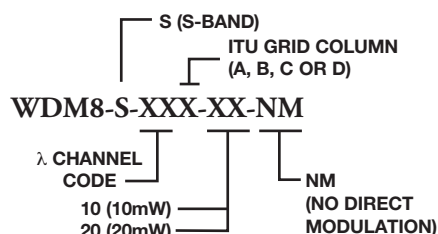
Optical Amplifiers

ASE Sources

LASER RADIATION
DO NOT VIEW DIRECTLY WITH
OPTICAL INSTRUMENTS!
CLASS 1M LASER PRODUCT
1454-1625nm <10mW
IEC 60825-1 EDITION 1.2 2001-08

S-Band Ordering & Pricing Information

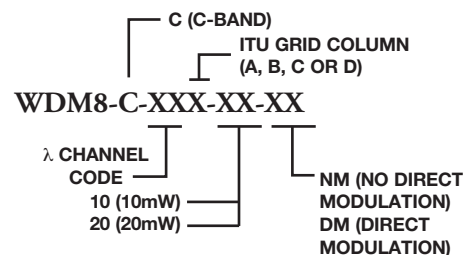
- 10mW, with no modulation \$2,500 €2.000
- 20mW, with no modulation \$2,800 €2.250



At this time, S-band DWDM laser modules are limited to just the two powers (10mW, & 20mW) and no direct 2.5GHz modulation for any of the models. Call for lead time.

C-Band Ordering & Pricing Information

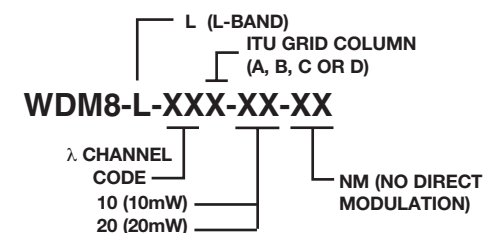
- 10mW, with modulation \$4,375 €3.500
- 10mW, with no modulation \$2,500 €2.000
- 20mW, with no modulation \$2,800 €2.250



At this time only the 10mW models are available with the 2.5GHz direct modulation feature.

L-Band Ordering & Pricing Information

- 10mW, with modulation \$4,375 €3.500
- 10mW, with no modulation \$2,500 €2.000
- 20mW, with no modulation \$2,800 €2.250



Example: WDM8-C-09C-10-DM: First go to the C-Band table, then down to the 9th channel, and over to column "C". Therefore the wavelength is 1562.84nm. The power is 10mW and the laser has the 2.5GHz modulation option.

Channel	S-Band (1491.69nm to 1529.55nm)							
	100 GHz Grid 0.80nm		50 GHz Offset 0.40nm		-25 GHz Offset 0.20nm		+25 GHz Offset 0.20nm	
	THz	nm	THz	nm	THz	nm	THz	nm
	Column A		Column B		Column C		Column D	
01	196.00	1529.55	196.05	1529.16	196.025	1529.36	196.075	1528.97
02	196.10	1528.77	196.15	1528.38	196.125	1528.58	196.175	1528.19
03	196.20	1527.99	196.25	1527.60	196.225	1527.80	196.275	1527.41
04	196.30	1527.22	196.35	1526.83	196.325	1527.02	196.375	1526.63
05	196.40	1526.44	196.45	1526.05	196.425	1526.24	196.475	1525.86
06	196.50	1525.66	196.55	1525.27	196.525	1525.47	196.575	1525.08
07	196.60	1524.89	196.65	1524.50	196.625	1524.69	196.675	1524.30
08	196.70	1524.11	196.75	1523.72	196.725	1523.92	196.775	1523.53
09	196.80	1523.34	196.85	1522.95	196.825	1523.14	196.875	1522.76
10	196.90	1522.56	196.95	1522.18	196.925	1522.37	196.975	1521.98
11	197.00	1521.79	197.05	1521.40	197.025	1521.60	197.075	1521.21
12	197.10	1521.02	197.15	1520.63	197.125	1520.82	197.175	1520.44
13	197.20	1520.25	197.25	1519.86	197.225	1520.05	197.275	1519.67
14	197.30	1519.48	197.35	1519.09	197.325	1519.28	197.375	1518.90
15	197.40	1518.71	197.45	1518.32	197.425	1518.51	197.475	1518.13
16	197.50	1517.94	197.55	1517.55	197.525	1517.74	197.575	1517.36
17	197.60	1517.17	197.65	1516.78	197.625	1516.98	197.675	1516.59
18	197.70	1516.40	197.75	1516.02	197.725	1516.21	197.775	1515.83
19	197.80	1515.63	197.85	1515.25	197.825	1515.44	197.875	1515.06
20	197.90	1514.87	197.95	1514.49	197.925	1514.68	197.975	1514.29
21	198.00	1514.10	198.05	1513.72	198.025	1513.91	198.075	1513.53
22	198.10	1513.34	198.15	1512.96	198.125	1513.15	198.175	1512.77
23	198.20	1512.58	198.25	1512.19	198.225	1512.38	198.275	1512.00
24	198.30	1511.81	198.35	1511.43	198.325	1511.62	198.375	1511.24
25	198.40	1511.05	198.45	1510.67	198.425	1510.86	198.475	1510.48
26	198.50	1510.29	198.55	1509.91	198.525	1510.10	198.575	1509.72
27	198.60	1509.53	198.65	1509.15	198.625	1509.34	198.675	1508.96
28	198.70	1508.77	198.75	1508.39	198.725	1508.58	198.775	1508.20
29	198.80	1508.01	198.85	1507.63	198.825	1507.82	198.875	1507.44
30	198.90	1507.25	198.95	1506.87	198.925	1507.06	198.975	1506.68
31	199.00	1506.49	199.05	1506.12	199.025	1506.31	199.075	1505.93
32	199.10	1505.74	199.15	1505.36	199.125	1505.55	199.175	1505.17
33	199.20	1504.98	199.25	1504.60	199.225	1504.79	199.275	1504.42
34	199.30	1504.23	199.35	1503.85	199.325	1504.04	199.375	1503.66
35	199.40	1503.47	199.45	1503.10	199.425	1503.28	199.475	1502.91
36	199.50	1502.72	199.55	1502.34	199.525	1502.53	199.575	1502.15
37	199.60	1501.97	199.65	1501.59	199.625	1501.78	199.675	1501.40
38	199.70	1501.21	199.75	1500.84	199.725	1501.03	199.775	1500.65
39	199.80	1500.46	199.85	1500.09	199.825	1500.28	199.875	1499.90
40	199.90	1499.71	199.95	1499.34	199.925	1499.52	199.975	1499.15
41	200.00	1498.96	200.05	1498.59	200.025	1498.77	200.075	1498.40
42	200.10	1498.21	200.15	1497.84	200.125	1498.03	200.175	1497.65
43	200.20	1497.46	200.25	1497.09	200.225	1497.28	200.275	1496.90
44	200.30	1496.72	200.35	1496.34	200.325	1496.53	200.375	1496.16
45	200.40	1495.97	200.45	1495.60	200.425	1495.78	200.475	1495.41
46	200.50	1495.22	200.55	1494.85	200.525	1495.04	200.575	1494.67
47	200.60	1494.48	200.65	1494.11	200.625	1494.29	200.675	1493.92
48	200.70	1493.73	200.75	1493.36	200.725	1493.55	200.775	1493.18
49	200.80	1492.99	200.85	1492.62	200.825	1492.80	200.875	1492.43
50	200.90	1492.25	200.95	1491.88	200.925	1492.06	200.975	1491.69

Channel	C-Band (1529.75nm to 1569.59nm)								Channel	L-Band (1569.80nm to 1611.79nm)							
	100 GHz Grid		50 GHz Offset		-25 GHz Offset		+25 GHz Offset			100 GHz Grid		50 GHz Offset		-25 GHz Offset		+25 GHz Offset	
	0.80nm		0.40nm		0.20nm		0.20nm			0.80nm		0.40nm		0.20nm		0.20nm	
	THz	nm	THz	nm	THz	nm	THz	nm		THz	nm	THz	nm	THz	nm	THz	nm
	Column A		Column B		Column C		Column D			Column A		Column B		Column C		Column D	
01	191.00	1569.59	191.05	1569.18	191.025	1569.39	191.075	1568.98	01	186.00	1611.79	186.05	1611.35	186.025	1611.57	186.075	1611.14
02	191.10	1568.77	191.15	1568.36	191.125	1568.57	191.175	1568.16	02	186.10	1610.92	186.15	1610.49	186.125	1610.70	186.175	1610.27
03	191.20	1567.95	191.25	1567.54	191.225	1567.75	191.275	1567.34	03	186.20	1610.06	186.25	1609.62	186.225	1609.84	186.275	1609.41
04	191.30	1567.13	191.35	1566.72	191.325	1566.93	191.375	1566.52	04	186.30	1609.19	186.35	1608.76	186.325	1608.98	186.375	1608.55
05	191.40	1566.31	191.45	1565.90	191.425	1566.11	191.475	1565.70	05	186.40	1608.33	186.45	1607.90	186.425	1608.11	186.475	1607.68
06	191.50	1565.50	191.55	1565.09	191.525	1565.29	191.575	1564.88	06	186.50	1607.47	186.55	1607.04	186.525	1607.25	186.575	1606.820
07	191.60	1564.68	191.65	1564.27	191.625	1564.47	191.675	1564.07	07	186.60	1606.60	186.65	1606.17	186.625	1606.39	186.675	1605.96
08	191.70	1563.86	191.75	1563.45	191.725	1563.66	191.775	1563.25	08	186.70	1605.74	186.75	1605.31	186.725	1605.53	186.775	1605.10
09	191.80	1563.05	191.85	1562.64	191.825	1562.84	191.875	1562.44	09	186.80	1604.88	186.85	1604.46	186.825	1604.67	186.875	1604.24
10	191.90	1562.23	191.95	1561.83	191.925	1562.03	191.975	1561.62	10	186.90	1604.03	186.95	1603.60	186.925	1603.81	186.975	1603.38
11	192.00	1561.42	192.05	1561.01	192.025	1561.22	192.075	1560.81	11	187.00	1603.17	187.05	1602.74	187.025	1602.95	187.075	1602.53
12	192.10	1560.61	192.15	1560.20	192.125	1560.40	192.175	1560.00	12	187.10	1602.31	187.15	1601.88	187.125	1602.10	187.175	1601.67
13	192.20	1559.79	192.25	1559.39	192.225	1559.59	192.275	1559.19	13	187.20	1601.46	187.25	1601.03	187.225	1601.24	187.275	1600.81
14	192.30	1558.98	192.35	1558.58	192.325	1558.78	192.375	1558.38	14	187.30	1600.60	187.35	1600.17	187.325	1600.39	187.375	1599.96
15	192.40	1558.17	192.45	1557.77	192.425	1557.97	192.475	1557.57	15	187.40	1599.75	187.45	1599.32	187.425	1599.53	187.475	1599.11
16	192.50	1557.36	192.55	1556.96	192.525	1557.16	192.575	1556.76	16	187.50	1598.89	187.55	1598.47	187.525	1598.68	187.575	1598.25
17	192.60	1556.55	192.65	1556.15	192.625	1556.35	192.675	1555.95	17	187.60	1598.04	187.65	1597.62	187.625	1597.83	187.675	1597.40
18	192.70	1555.75	192.75	1555.34	192.725	1555.55	192.775	1555.14	18	187.70	1597.19	187.75	1596.76	187.725	1596.98	187.775	1596.55
19	192.80	1554.94	192.85	1554.54	192.825	1554.74	192.875	1554.34	19	187.80	1596.34	187.85	1595.91	187.825	1596.13	187.875	1595.70
20	192.90	1554.13	192.95	1553.73	192.925	1553.93	192.975	1553.53	20	187.90	1595.49	187.95	1595.06	187.925	1595.28	187.975	1594.85
21	193.00	1553.33	193.05	1552.93	193.025	1553.13	193.075	1552.73	21	188.00	1594.64	188.05	1594.22	188.025	1594.43	188.075	1594.00
22	193.10	1552.52	193.15	1552.12	193.125	1552.32	193.175	1551.92	22	188.10	1593.79	188.15	1593.37	188.125	1593.58	188.175	1593.16
23	193.20	1551.72	193.25	1551.32	193.225	1551.52	193.275	1551.12	23	188.20	1592.95	188.25	1592.52	188.225	1592.73	188.275	1592.31
24	193.30	1550.92	193.35	1550.52	193.325	1550.72	193.375	1550.32	24	188.30	1592.10	188.35	1591.68	188.325	1591.89	188.375	1591.47
25	193.40	1550.12	193.45	1549.72	193.425	1549.92	193.475	1549.52	25	188.40	1591.26	188.45	1590.83	188.425	1591.04	188.475	1590.62
26	193.50	1549.32	193.55	1548.91	193.525	1549.11	193.575	1548.71	26	188.50	1590.41	188.55	1589.99	188.525	1590.20	188.575	1589.78
27	193.60	1548.51	193.65	1548.11	193.625	1548.31	193.675	1547.92	27	188.60	1589.57	188.65	1589.15	188.625	1589.36	188.675	1588.94
28	193.70	1547.72	193.75	1547.32	193.725	1547.52	193.775	1547.12	28	188.70	1588.73	188.75	1588.30	188.725	1588.51	188.775	1588.09
29	193.80	1546.92	193.85	1546.52	193.825	1546.72	193.875	1546.32	29	188.80	1587.88	188.85	1587.46	188.825	1587.67	188.875	1587.25
30	193.90	1546.12	193.95	1545.72	193.925	1545.92	193.975	1545.52	30	188.90	1587.04	188.95	1586.62	188.925	1586.83	188.975	1586.41
31	194.00	1545.32	194.05	1544.92	194.025	1545.12	194.075	1544.72	31	189.00	1586.20	189.05	1585.78	189.025	1585.99	189.075	1585.57
32	194.10	1544.53	194.15	1544.13	194.125	1544.33	194.175	1543.93	32	189.10	1585.36	189.15	1584.95	189.125	1585.16	189.175	1584.74
33	194.20	1543.73	194.25	1543.33	194.225	1543.53	194.275	1543.13	33	189.20	1584.53	189.25	1584.11	189.225	1584.32	189.275	1583.90
34	194.30	1542.94	194.35	1542.54	194.325	1542.74	194.375	1542.34	34	189.30	1583.69	189.35	1583.27	189.325	1583.48	189.375	1583.06
35	194.40	1542.14	194.45	1541.75	194.425	1541.94	194.475	1541.55	35	189.40	1582.85	189.45	1582.44	189.425	1582.64	189.475	1582.23
36	194.50	1541.35	194.55	1540.95	194.525	1541.15	194.575	1540.76	36	189.50	1582.02	189.55	1581.60	189.525	1581.81	189.575	1581.39
37	194.60	1540.56	194.65	1540.16	194.625	1540.36	194.675	1539.96	37	189.60	1581.18	189.65	1580.77	189.625	1580.98	189.675	1580.56
38	194.70	1539.77	194.75	1539.37	194.725	1539.57	194.775	1539.17	38	189.70	1580.35	189.75	1579.93	189.725	1580.14	189.775	1579.73
39	194.80	1538.98	194.85	1538.58	194.825	1538.78	194.875	1538.38	39	189.80	1579.52	189.85	1579.10	189.825	1579.31	189.875	1578.89
40	194.90	1538.19	194.95	1537.79	194.925	1537.99	194.975	1537.59	40	189.90	1578.69	189.95	1578.27	189.925	1578.48	189.975	1578.06
41	195.00	1537.40	195.05	1537.00	195.025	1537.20	195.075	1536.81	41	190.00	1577.86	190.05	1577.44	190.025	1577.65	190.075	1577.23
42	195.10	1536.61	195.15	1536.22	195.125	1536.41	195.175	1536.02	42	190.10	1577.03	190.15	1576.61	190.125	1576.82	190.175	1576.40
43	195.20	1535.82	195.25	1535.43	195.225	1535.63	195.275	1535.23	43	190.20	1576.20	190.25	1575.78	190.225	1575.99	190.275	1575.57
44	195.30	1535.04	195.35	1534.64	195.325	1534.84	195.375	1534.45	44	190.30	1575.37	190.35	1574.95	190.325	1575.16	190.375	1574.75
45	195.40	1534.25	195.45	1533.86	195.425	1534.05	195.475	1533.66	45	190.40	1574.54	190.45	1574.13	190.425	1574.33	190.475	1573.92
46	195.50	1533.47	195.55	1533.07	195.525	1533.27	195.575	1532.88	46	190.50	1573.71	190.55	1573.30	190.525	1573.51	190.575	1573.09
47	195.60	1532.68	195.65	1532.29	195.625	1532.49	195.675	1532.09	47	190.60	1572.89	190.65	1572.48	190.625	1572.68	190.675	1572.27
48	195.70	1531.90	195.75	1531.51	195.725	1531.70	195.775	1531.31	48	190.70	1572.06	190.75	1571.65	190.725	1571.86	190.775	1571.45
49	195.80	1531.12	195.85	1530.72	195.825	1530.92	195.875	1530.53	49	190.80	1571.24	190.85	1570.83	190.825	1571.03	190.875	1570.62
50	195.90	1530.33	195.95	1529.94	195.925	1530.14	195.975	1529.75	50	190.90	1570.42	190.95	1570.01	190.925	1570.21	190.975	1569.80

REF

- Tunables μECL
- Femtosecond Laser
- WDM Laser Banks
- Benchtop Laser Sources
- HeNe Lasers
- Optical Amplifiers
- ASE Sources