

**LINEWIDTH CONVERSION TABLE**

$$\Delta f = \frac{c}{\lambda^2} \Delta \lambda$$

**ILX TRef 1**

<b>1310 nm</b>	
$\Delta \lambda$	$\Delta f$
2.0 nm	= 349.4 GHz
1.9 nm	= 331.9 GHz
1.8 nm	= 314.4 GHz
1.7 nm	= 297.0 GHz
1.6 nm	= 279.5 GHz
1.5 nm	= 262.0 GHz
1.4 nm	= 244.6 GHz
1.3 nm	= 227.1 GHz
1.2 nm	= 209.6 GHz
1.1 nm	= 192.2 GHz
1.0 nm	= 174.7 GHz
0.9 nm	= 157.2 GHz
0.8 nm	= 139.8 GHz
0.7 nm	= 122.3 GHz
0.6 nm	= 104.8 GHz
0.5 nm	= 87.3 GHz
0.4 nm	= 69.9 GHz
0.3 nm	= 52.4 GHz
0.2 nm	= 34.9 GHz
0.1 nm	= 17.5 GHz
90 pm	= 15.7 GHz
80 pm	= 14.0 GHz
70 pm	= 12.2 GHz
60 pm	= 10.5 GHz
50 pm	= 8.73 GHz
40 pm	= 6.99 GHz
30 pm	= 5.24 GHz
20 pm	= 3.49 GHz
10 pm	= 1.75 GHz
9 pm	= 1.57 GHz
8 pm	= 1.40 GHz
7 pm	= 1.22 GHz
6 pm	= 1.05 GHz
5 pm	= 873 MHz
4 pm	= 699 MHz
3 pm	= 524 MHz
2 pm	= 349 MHz
1 pm	= 175 MHz
0.9 pm	= 157 MHz
0.8 pm	= 140 MHz
0.7 pm	= 122 MHz
0.6 pm	= 105 MHz
0.5 pm	= 87 MHz
0.4 pm	= 70 MHz
0.3 pm	= 52 MHz
0.2 pm	= 35 MHz
0.1 pm	= 17 MHz

<b>1550 nm</b>	
$\Delta \lambda$	$\Delta f$
2.0 nm	= 249.6 GHz
1.9 nm	= 237.1 GHz
1.8 nm	= 224.6 GHz
1.7 nm	= 212.1 GHz
1.6 nm	= 199.7 GHz
1.5 nm	= 187.2 GHz
1.4 nm	= 174.7 GHz
1.3 nm	= 162.2 GHz
1.2 nm	= 149.7 GHz
1.1 nm	= 137.3 GHz
1.0 nm	= 124.8 GHz
0.9 nm	= 112.3 GHz
0.8 nm	= 99.8 GHz
0.7 nm	= 87.3 GHz
0.6 nm	= 74.9 GHz
0.5 nm	= 62.4 GHz
0.4 nm	= 49.9 GHz
0.3 nm	= 37.4 GHz
0.2 nm	= 25.0 GHz
0.1 nm	= 12.5 GHz
90 pm	= 11.2 GHz
80 pm	= 10.0 GHz
70 pm	= 8.73 GHz
60 pm	= 7.49 GHz
50 pm	= 6.24 GHz
40 pm	= 4.99 GHz
30 pm	= 3.74 GHz
20 pm	= 2.50 GHz
10 pm	= 1.25 GHz
9 pm	= 1.12 GHz
8 pm	= 1.00 GHz
7 pm	= 873 MHz
6 pm	= 749 MHz
5 pm	= 624 MHz
4 pm	= 499 MHz
3 pm	= 374 MHz
2 pm	= 250 MHz
1 pm	= 125 MHz
0.9 pm	= 112 MHz
0.8 pm	= 100 MHz
0.7 pm	= 87 MHz
0.6 pm	= 75 MHz
0.5 pm	= 62 MHz
0.4 pm	= 50 MHz
0.3 pm	= 37 MHz
0.2 pm	= 25 MHz
0.1 pm	= 12 MHz

c = 299,792,458 meters/sec

 nm = nanometer =  $10^{-9}$  meter

 pm = picometer =  $10^{-12}$  meter