

VIEW 1

	ITU-T		G.694.1		c: 299792458 m/s	
Total Span	36nm					
# of λs	1 + 8		1 + 16		1 + 32	
Grid GHz	800		400		200	
Span nm	4 + 32		2 + 34		1 + 35	
Units	THz	nm	THz	nm	THz	nm
L-16					233.8	1282.26
L-15					233.6	1283.36
L-14					233.4	1284.46
L-13					233.2	1285.56
L-12					233.0	1286.66
L-11					232.8	1287.77
L-10					232.6	1288.88
L-9					232.4	1289.98
L-8			233.8	1282.26	232.2	1291.10
L-7			233.4	1284.46	232.0	1292.21
L-6			233.0	1286.66	231.8	1293.32
L-5			232.6	1288.88	231.6	1294.44
L-4	233.8	1282.26	232.2	1291.10	231.4	1295.56
L-3	233.0	1286.66	231.8	1293.32	231.2	1296.68
L-2	232.2	1291.10	231.4	1295.56	231.0	1297.80
L-1	231.4	1295.56	231.0	1297.80	230.8	1298.93
L0	230.6	1300.05	230.6	1300.05	230.6	1300.05
L1	229.8	1304.58	230.2	1302.31	230.4	1301.18
L2	229.0	1309.14	229.8	1304.58	230.2	1302.31
L3	228.2	1313.73	229.4	1306.85	230.0	1303.45
L4	227.4	1318.35	229.0	1309.14	229.8	1304.58
L5			228.6	1311.43	229.6	1305.72
L6			228.2	1313.73	229.4	1306.85
L7			227.8	1316.03	229.2	1308.00
L8			227.4	1318.35	229.0	1309.14
L9					228.8	1310.28
L10					228.6	1311.43
L11					228.4	1312.58
L12					228.2	1313.73
L13					228.0	1314.88
L14					227.8	1316.03
L15					227.6	1317.19
L16					227.4	1318.35

	Anchor Freq:		193.1 THz		Chris Cole 6/18/20	
Total Span	18nm					
# of λs	1 + 8		1 + 16		1 + 32	
Grid GHz	400		200		100	
Span nm	2 + 16		1 + 17		0.5 + 17.5	
Units	THz	nm	THz	nm	THz	nm
L-16					232.2	1291.10
L-15					232.1	1291.65
L-14					232.0	1292.21
L-13					231.9	1292.77
L-12					231.8	1293.32
L-11					231.7	1293.88
L-10					231.6	1294.44
L-9					231.5	1295.00
L-8			232.2	1291.10	231.4	1295.56
L-7			232.0	1292.21	231.3	1296.12
L-6			231.8	1293.32	231.2	1296.68
L-5			231.6	1294.44	231.1	1297.24
L-4	232.2	1291.10	231.4	1295.56	231.0	1297.80
L-3	231.8	1293.32	231.2	1296.68	230.9	1298.36
L-2	231.4	1295.56	231.0	1297.80	230.8	1298.93
L-1	231.0	1297.80	230.8	1298.93	230.7	1299.49
L0	230.6	1300.05	230.6	1300.05	230.6	1300.05
L1	230.2	1302.31	230.4	1301.18	230.5	1300.62
L2	229.8	1304.58	230.2	1302.31	230.4	1301.18
L3	229.4	1306.85	230.0	1303.45	230.3	1301.75
L4	229.0	1309.14	229.8	1304.58	230.2	1302.31
L5			229.6	1305.72	230.1	1302.88
L6			229.4	1306.85	230.0	1303.45
L7			229.2	1308.00	229.9	1304.01
L8			229.0	1309.14	229.8	1304.58
L9					229.7	1305.15
L10					229.6	1305.72
L11					229.5	1306.29
L12					229.4	1306.85
L13					229.3	1307.42
L14					229.2	1308.00
L15					229.1	1308.57
L16					229.0	1309.14

VIEW 2

	ITU-T		G.694.1		c: 299792458 m/s	
Total Span	36nm					
# of λs	1 + 8		1 + 16		1 + 32	
Grid GHz	800		400		200	
Span nm	4 + 32		2 + 34		1 + 35	
Units	THz	nm	THz	nm	THz	nm
	233.8	1282.26	233.8	1282.26	233.8	1282.26
					233.6	1283.36
			233.4	1284.46	233.4	1284.46
					233.2	1285.56
	233.0	1286.66	233.0	1286.66	233.0	1286.66
					232.8	1287.77
			232.6	1288.88	232.6	1288.88
					232.4	1289.98
	232.2	1291.10	232.2	1291.10	232.2	1291.10
					232.0	1292.21
			231.8	1293.32	231.8	1293.32
					231.6	1294.44
	231.4	1295.56	231.4	1295.56	231.4	1295.56
					231.2	1296.68
			231.0	1297.80	231.0	1297.80
					230.8	1298.93
LO	230.6	1300.05	230.6	1300.05	230.6	1300.05
					230.4	1301.18
			230.2	1302.31	230.2	1302.31
					230.0	1303.45
	229.8	1304.58	229.8	1304.58	229.8	1304.58
					229.6	1305.72
			229.4	1306.85	229.4	1306.85
					229.2	1308.00
	229.0	1309.14	229.0	1309.14	229.0	1309.14
					228.8	1310.28
			228.6	1311.43	228.6	1311.43
					228.4	1312.58
	228.2	1313.73	228.2	1313.73	228.2	1313.73
					228.0	1314.88
			227.8	1316.03	227.8	1316.03
					227.6	1317.19
	227.4	1318.35	227.4	1318.35	227.4	1318.35

Anchor Freq:	193.1 THz		Chris Cole		6/18/20	
	18nm					
	1 + 8		1 + 16		1 + 32	
	400		200		100	
	2 + 16		1 + 17		0.5 + 17.5	
Units	THz	nm	THz	nm	THz	nm
	232.2	1291.10	232.2	1291.10	232.2	1291.10
					232.1	1291.65
			232.0	1292.21	232.0	1292.21
					231.9	1292.77
	231.8	1293.32	231.8	1293.32	231.8	1293.32
					231.7	1293.88
			231.6	1294.44	231.6	1294.44
					231.5	1295.00
	231.4	1295.56	231.4	1295.56	231.4	1295.56
					231.3	1296.12
			231.2	1296.68	231.2	1296.68
					231.1	1297.24
	231.0	1297.80	231.0	1297.80	231.0	1297.80
					230.9	1298.36
			230.8	1298.93	230.8	1298.93
					230.7	1299.49
	230.6	1300.05	230.6	1300.05	230.6	1300.05
					230.5	1300.62
			230.4	1301.18	230.4	1301.18
					230.3	1301.75
	230.2	1302.31	230.2	1302.31	230.2	1302.31
					230.1	1302.88
			230.0	1303.45	230.0	1303.45
					229.9	1304.01
	229.8	1304.58	229.8	1304.58	229.8	1304.58
					229.7	1305.15
			229.6	1305.72	229.6	1305.72
					229.5	1306.29
	229.4	1306.85	229.4	1306.85	229.4	1306.85
					229.3	1307.42
			229.2	1308.00	229.2	1308.00
					229.1	1308.57
	229.0	1309.14	229.0	1309.14	229.0	1309.14

VIEW 3

c: 299792458 m/s

Chris Cole 6/18/20

Org	IEEE 802.3ba		MSA	
Standard	CWDM4	LWDM4	CW-WDM	CW-WDM
# of λs	4	4	1 + 8	1 + 8
Grid	20nm	800GHz	800GHz	400GHz
Span nm	60	14	4 + 32	2 + 16
Units	λ name	λ name	λ name	λ name

WAVELENGTH	
DWDM	
ITU-T	
G.694.1	
nom	
THz	nm

DISPERSION		
SMF		
ITU-T		
G.652 A, B, C, D		
min	nom	max
ps/nm-km	ps/nm-km	ps/nm-km

GAIN
PDFA
Thor Labs 100
-10dBm input
typ - 21.65dB
dB

L0 (min)			
		L-4	
		L-3	

n/a	1264.5
233.8	1282.26
233.0	1286.66

-5.9	-4.5	
-4.1	-2.7	
-3.6	-2.2	

-18.7
-7.4
-4.7

L1 (nom)			
		L-2	L-4
		L-3	
	L0 (nom)	L-1	L-2
			L-1
	L1 (nom)	L0	L0
			L1
	L2 (nom)	L1	L2
			L3
	L3 (nom)	L2	L4
L2 (nom)			

n/a	1291.0
232.2	1291.10
231.8	1293.32
231.4	1295.56
231.0	1297.80
230.6	1300.05
230.2	1302.31
229.8	1304.58
229.4	1306.85
229.0	1309.14
n/a	1311.0

-3.2	-1.8	
-3.2	-1.8	
-3.0	-1.6	
-2.7	-1.4	
-2.5	-1.2	
-2.3	-1.0	0.0
-2.1	-0.8	0.2
-1.8	-0.5	0.4
-1.6	-0.3	0.6
-1.4	-0.1	0.8
-1.2	0.1	1.0

-2.5
-2.4
-1.5
-0.8
-0.4
0.0
-0.1
-0.2
-0.6
-1.1
-1.5

		L3	
		L4	
L3 (max)			

228.2	1313.73
227.4	1318.35
n/a	1337.5

-1.0	0.3	1.3
-0.5	0.8	1.7
	2.5	3.3

-2.2
-3.8
-17.0