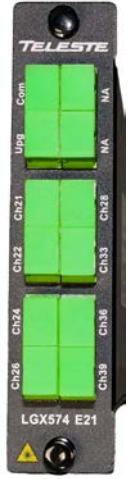




PRODUCT FAMILY	DESCRIPTION
LGX OPTICAL MODULES	LGX DWDM C-BAND MODULES
	FEATURES
	<ul style="list-style-type: none"> <li>&gt;&gt; Excellent isolation</li> <li>&gt;&gt; Field proven full-blown technology</li> <li>&gt;&gt; High density, up to 12 SC/APC ports in a single width module</li> <li>&gt;&gt; Optimized MUX/DEMUX functionality to reach <b>(A)</b> LOW INSERTION LOSS or <b>(B)</b> LOGISTICAL EASINESS</li> </ul>

**SPECIFICATIONS**

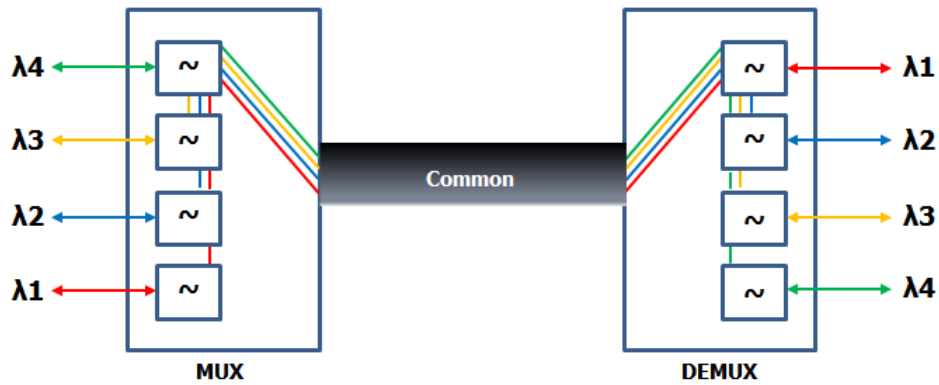
**LGX572 C-band 4-ch DWDM MULTIPLEXER/DEMULTIPLEXER, 100 GHz**

PRODUCT MODEL	WAVELENGTH ALLOCATIONS
LGX572 E21, 4 ch MULTIPLEXER	ITU ch 21, 22, 24, 26, UPG
LGX572 F21, 4 ch DEMULTIPLEXER	ITU ch 21, 22, 24, 26, UPG

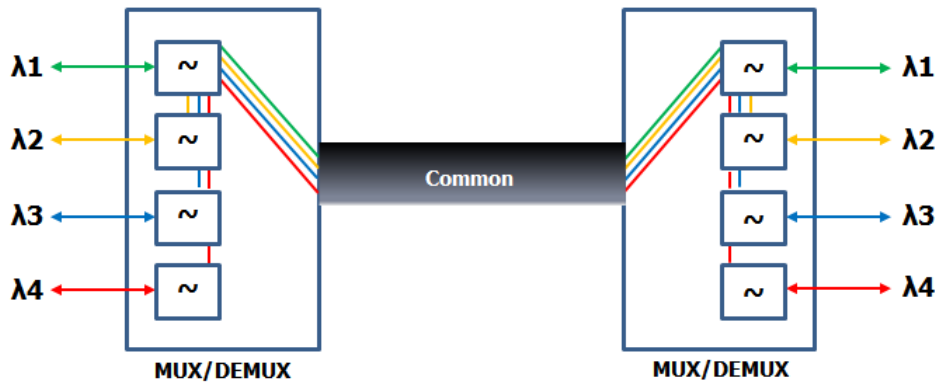
PARAMETER	VALUE	PARAMETER	VALUE
OPERATING WAVELENGTH RANGE	1520...1565 nm	WAVELENGTH SPACING	100 GHz
INSERTION LOSS OF DWDM PORTS	1.5 dB (max. 2.3 dB)	INSERTION LOSS OF UPGRADE PORT	1.4 dB (max. 2.2 dB)
INSERTION LOSS OPTION A, (E21)MUX-(F21)DEMUX PAIR	2.0 dB (max. 3.2 dB)	INSERTION LOSS OPTION B, (F21)DEMUX-(F21)DEMUX PAIR	2.0 dB ±1.9 (max. 3.9 dB)
DWDM CHANNEL BANDWIDTH	±0.11 nm	UPGRADE CHANNEL BANDWIDTH	1520...1565 nm, except DWDM channels
ADJACENT CHANNEL ISOLATION	25 dB	NON-ADJACENT CHANNEL ISOLATION	40 dB
UPGRADE PORT ISOLATION	15 dB	DIRECTIVITY	45 dB
RETURN LOSS	45 dB	MAXIMUM OPTICAL POWER	300 mW
NUMBER OF OPTICAL PORTS	6	ENCLOSURE	Single width LGX module

<b>LGX574 - C-band 8-ch DWDM MULTIPLEXER/ DEMULTIPLEXER, 200 GHz</b>			
<b>PRODUCT MODEL</b>		<b>WAVELENGTH ALLOCATIONS</b>	
<b>LGX574 A45, 8 ch MULTIPLEXER</b>		ITU ch 45, 47, 49, 51, 53, 55, 57, 59, UPG	
<b>LGX574 B45, 8 ch DEMULTIPLEXER</b>		ITU ch 45, 47, 49, 51, 53, 55, 57, 59, UPG	
<b>PARAMETER</b>	<b>VALUE</b>	<b>PARAMETER</b>	<b>VALUE</b>
OPERATING WAVELENGTH RANGE	1520...1565 nm	WAVELENGTH SPACING	200 GHz
INSERTION LOSS OF DWDM PORTS	2.4 dB (max. 3.6 dB)	INSERTION LOSS OF UPGRADE PORT	2.4 dB (max. 3.2 dB)
INSERTION LOSS OPTION A, (A45)MUX-(B45)DEMUX PAIR	3.0 dB (max. 4.2 dB)	INSERTION LOSS OPTION B, (B45)DEMUX-(B45)DEMUX PAIR	3.0 dB ±2.6 (max. 5.6 dB)
UPGRADE CHANNEL BANDWIDTH	1520...1565 nm, except DWDM channels	DWDM CHANNEL BANDWIDTH	±0.25 nm
ADJACENT CHANNEL ISOLATION	25 dB	NON-ADJACENT CHANNEL ISOLATION	40 dB
UPGRADE PORT ISOLATION	15 dB	RETURN LOSS	45 dB
DIRECTIVITY	40 dB	MAX. OPTICAL POWER	300 mW
ENCLOSURE	Single width LGX module	NUMBER OF OPTICAL PORTS	10

<b>LGX574 - C-band 8-ch DWDM MULTIPLEXER/ DEMULTIPLEXER, 100 GHz</b>			
<b>PRODUCT MODEL</b>		<b>WAVELENGTH ALLOCATIONS</b>	
<b>LGX574 E21, 8 ch MULTIPLEXER</b>		ITU ch 21, 22, 24, 26, 28, 33, 36, 39, UPG	
<b>LGX574 F21, 8 ch DEMULTIPLEXER</b>		ITU ch 21, 22, 24, 26, 28, 33, 36, 39, UPG	
<b>PARAMETER</b>	<b>VALUE</b>	<b>PARAMETER</b>	<b>VALUE</b>
OPERATING WAVELENGTH RANGE	1520...1565 nm	WAVELENGTH SPACING	100 GHz
INSERTION LOSS OF DWDM PORTS	2.4 dB (max. 3.1 dB)	INSERTION LOSS OF UPGRADE PORT	2.1 dB (max. 2.8 dB)
INSERTION LOSS OPTION A, (E21)MUX-(F21)DEMUX PAIR	3.0 dB (max. 4.2 dB)	INSERTION LOSS OPTION B, (F21)DEMUX-(F21)DEMUX PAIR	3.0 dB ±2.6 (max. 5.6 dB)
DWDM CHANNEL BANDWIDTH	±0.11 nm	UPGRADE CHANNEL BANDWIDTH	1520...1565 nm, except DWDM channels
ADJACENT CHANNEL ISOLATION	25 dB	NON-ADJACENT CHANNEL ISOLATION	40 dB
UPGRADE PORT ISOLATION	15 dB	RETURN LOSS	45 dB
DIRECTIVITY	45 dB	MAXIMUM OPTICAL POWER	300 mW
ENCLOSURE	Single width LGX module	NUMBER OF OPTICAL PORTS	10



**OPTION A:** To reach good uniformity between the ports it is recommended to use MUX and DEMUX pair in “inverted” order. In that case every wavelength is attenuated equally and total insertion loss of the system is low and well predicted.



**OPTION B:** Traditional approach is to use same component as a MUX and as a DEMUX. It makes logistics easier due to only one product variant but uniformity between ports is not as good as it is in the option A. Total insertion loss is different for every wavelength and network design is more difficult because it must be based on the worst case insertion loss combination (in this case wavelength 4).

**LGX570 - C-band DWDM 1-ch ADD/ DROP FILTER**

PARAMETER	VALUE	PARAMETER	VALUE
ENCLOSURE	Single width LGX module	OPERATING WAVELENGTH RANGE	1530...1564 nm
ADD-DROP WAVELENGTH OPTIONS	ITU ch 59, 58, 57, ..., 18	CHANNEL SPACING	100 GHz or 200 GHz
CHANNEL BANDWIDTH	±0.11 nm (100 GHz) ±0.25 nm (200 GHz)	INSERTION LOSS	1.0 dB
PASS BAND RIPPLE	0.5 dB	ADJACENT CHANNEL ISOLATION	25 dB
NON-ADJACENT CHANNEL ISOLATION	40 dB	ISOLATION COMMON IN <-> COMMON OUT	15 dB
DIRECTIVITY	50 dB	RETURN LOSS	45 dB
NUMBER OF OPTICAL PORTS	3		
WAVELENGTHS AND PRODUCT NAMING	LGX570 XYZ XY = ITU ch 100 GHz, Z = 1 or 200 GHz, Z = 2 Example: LGX570 442 --> ITU ch 44 and 200 GHz spacing		

GENERAL SPECIFICATION			
PARAMETER	VALUE	PARAMETER	VALUE
OPTICAL CONNECTOR	SC/APC	DIMENSION - SINGLE WIDTH MODULE	130(100) x 160 x 29 mm (h x d x w)
DIMENSION - DOUBLE WIDTH MODULE	130(100) x 160 x 58 mm (h x d x w)	WEIGHT - SINGLE WIDTH MODULE	0.2 kg
WEIGHT - DOUBLE WIDTH MODULE	0.3 kg	TEMP. RANGE	-20...+75 °C
OPERATING RELATIVE HUMIDITY	0...85 %		