

Part Number / Description Examples

Part Number	Single LGX Description
DS10x1-XSLU00-ETRUF	DWDM, Single (Mux or Demux), ITU 10A/10B/10C/10D, 100GHz grid, LGX single width, LC-UPC, with Express + Upgrade + Transmit Test + Receive Test ports, Thin Film Filter
DS10x1-XSLA00-ETRUF	DWDM, Single (Mux or Demux), ITU 10A/10B/10C/10D, 100GHz grid, LGX single width, LC-UPC, with Express + Upgrade + Transmit Test + Receive Test ports, Thin Film Filter
DS12x1-XSLU00-ETRUF	DWDM, Single (Mux or Demux), ITU 12A/12B/12C/12D, 100GHz grid, LGX single width, LC-UPC, with Express + Upgrade + Transmit Test + Receive Test ports, Thin Film Filter
DS12x1-XSLA00-ETRUF	DWDM, Single (Mux or Demux), ITU 12A/12B/12C/12D, 100GHz grid, LGX single width, LC-APC, with Express + Upgrade + Transmit Test + Receive Test ports, Thin Film Filter

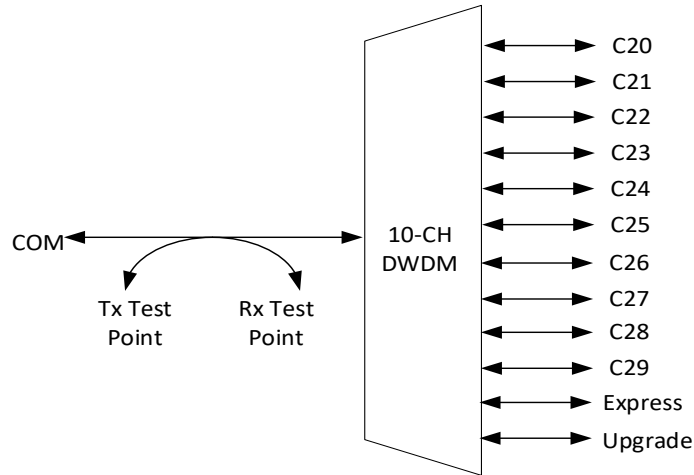
Part Number	Dual LGX Description
DD10x1-XSLU00-ETRUF	DWDM, Dual (Mux or Demux), ITU 10A/10B/10C/10D, 100GHz grid, LGX single width, LC-UPC, with Express + Upgrade + Transmit test + Receive Test ports, Thin Film
DD10x1-XSLA00-ETRUF	DWDM, Dual (Mux or Demux), ITU 10A/10B/10C/10D, 100GHz grid, LGX single width, LC-APC, with Express + Upgrade + Transmit Test + Receive Test ports, Thin Film Filter

Part Number	Twin LGX Description
DT12x1-XDLU00-ETRUF	DWDM, Twin (Mux + Demux), ITU 12A/12B/12C/12D, 100GHz grid, LGX double width, LC-UPC, with Express + Upgrade + Transmit Test + Receive Test ports, Thin Film Filter
DT12x1-XDLA00-ETRUF	DWDM, Twin (Mux + Demux), ITU 12A/12B/12C/12D, 100GHz grid, LGX double width, LC-APC, with Express + Upgrade + Transmit Test + Receive Test ports, Thin Film Filter

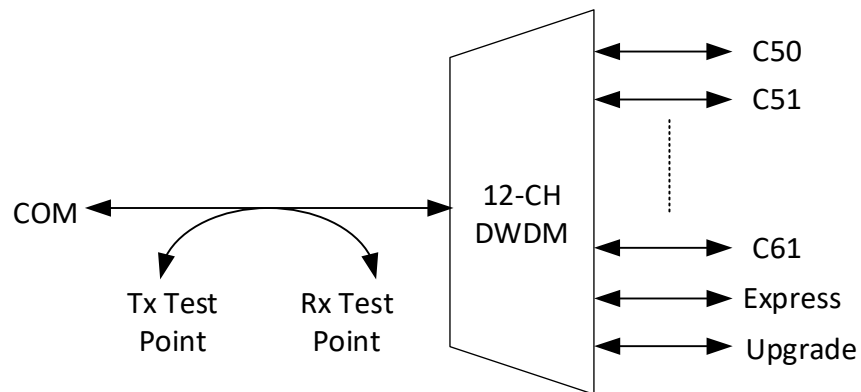
Optical Characteristics

Parameter	Value	Unit
DWDM Passband @ -0.5dB	$\lambda_c \pm 0.125$	nm
DWDM passband insertion loss @ -0.5dB	< 3.5	dB
DWDM passband ripple @ -0.5dB	< 0.5	dB
Test port insertion loss (dB)	20 ± 2	dB
Express insertion loss	< 1.5	dB
Express passband ripple	< 0.5	dB
Express passband	1260-1520 (1420-1520 w/ 1310 Port) 1570-1635	nm
Upgrade insertion loss	< 3.5	dB
Upgrade passband	Any ITU wavelengths within ITU 14 to 62 that is not being designated on the front plate	nm
1310 port insertion loss	< 1.5	dB
1310 port passband ripple	< 0.5	dB
1310 port passband	~1260-1360	dB
DWDM uniformity	< 1.5	dB
Isolation Adj (COM-DWDM)	> 30	dB
Isolation Non-Adj (COM-DWDM)	> 45	dB
Isolation Non-Adj (COM-EXP)	> 12	dB
DWDM directivity	> 50	dB
EXPRESS directivity	> 45	dB
Return loss	> 45	dB
Polarization dependent loss	< 0.2	dB
Polarization mode dispersion	< 0.15	ps
IL thermal stability	< 0.005	dB/°C
Wavelength thermal stability	< 0.001	nm/°C
Maximum input power	300 / 24.8	mW/dBm
Operating Temperature: Commercial Temp (standard) Industrial Temp	0 to 70 -40 to 85	°C
Operating humidity	5 to 95	%
Tensile strength pull strength (up to 10 seconds max)	> 20 ³	N
Fiber type (all ports)	SMF-28e (G.657.A1)	

Filter Optical Design

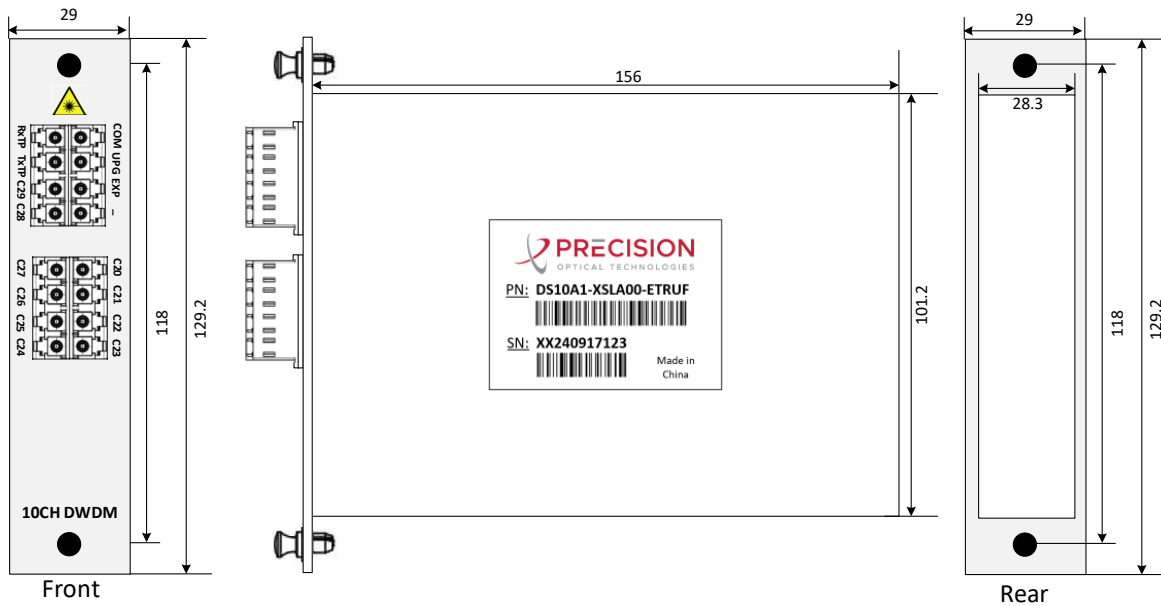


10-Channel DWDM Design (high level)

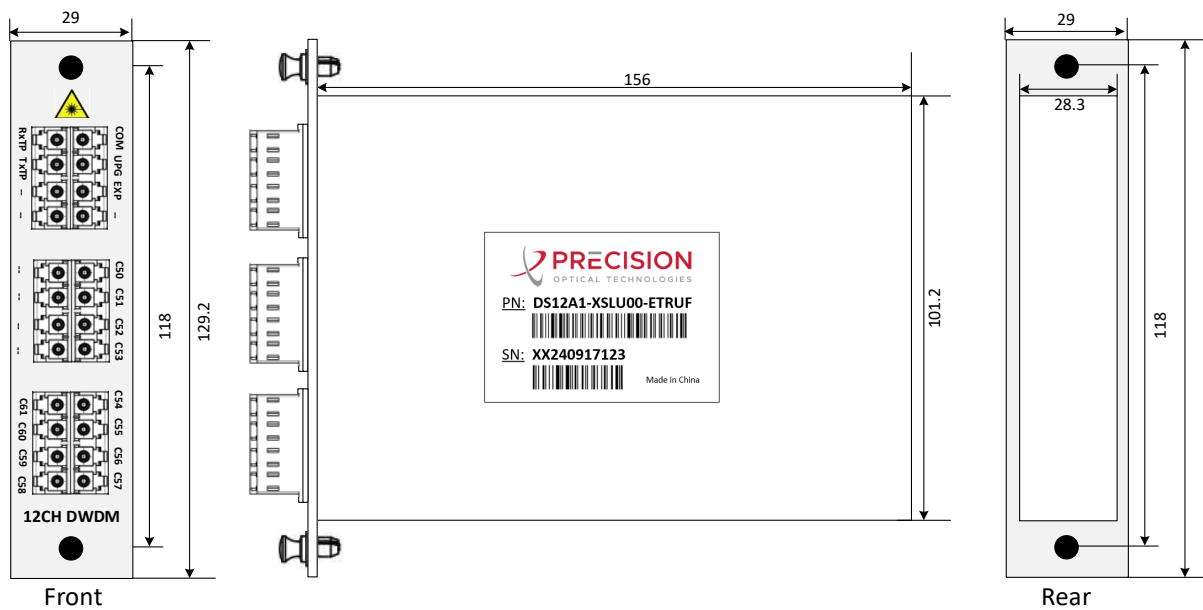


12-Channel DWDM Design (high level)

Filter Physical Design



10-Channel DWDM External Design (mm)
(DS10A1-XSLA00-ETRUF shown)



12-Channel DWDM External Design (mm)
(DS12A1-XSLU00-ETRUF shown)