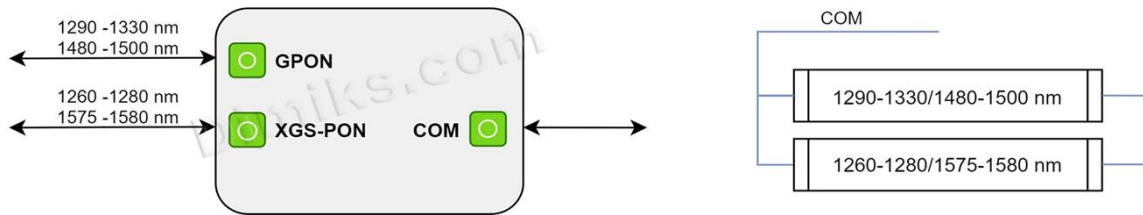


1a: GPON and XGS-PON

Scenario **1a: GPON and XGS-PON**

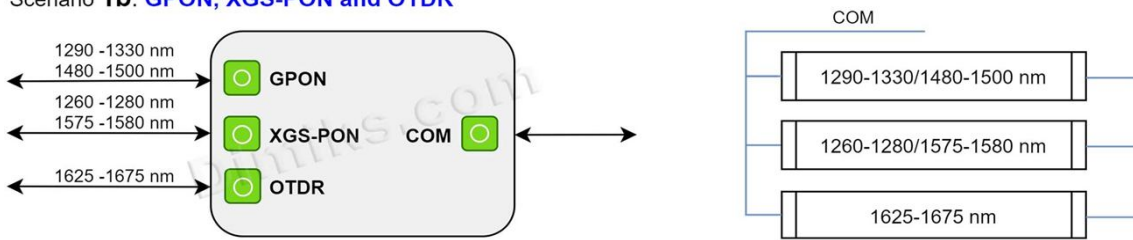


Parameter	Specification		Unit
Bandpass			
GPON (GPON band)	1290-1330/1480-1550		nm
XGS-PON (XGS-PON band)	1260-1280/1575-1580		nm
Insertion Loss*	Initial Max	Eol Max	
COM - GPON (GPON band)	0.8		0.9 dB
COM - XGS-PON (XGS-PON band)	1		1.1 dB
Uniformity	Initial Max	Eol Max	
	0.6		0.8 dB
Wavelength Isolations	min		
COM - GPON (XGS-PON bands)			30 dB
COM - XGS-PON (GPON bands)			30 dB
Return Loss	min		
All Ports			55 dB
Directivity	min		
All Ports			55 dB
Port C (GPON Port)			60 dB
PDL (Polarizarion Dependant Loss)	Intial Max	Eol Max	
All Ports	0.2		0.35 dB
(Polarization Mode Dispersion)	Max		
All Ports			0.2 ps
Optical Power Handing	Max		
Any individual port			300 mW
Environmental Performance	Normal	Short Term	
Operating Temperature	-5 to +40	-5 to +50	°C
Operating Relative Humidity	5 to 85	5 to 90	% RH
Storage Temperature	-40 to +85		°C
Operating Relative Humidity	Up to 93		% RH
Reliability	Designed to meet the mechanical and Environmental		

Insertion Loss includes WDL, TDL and PDL WITH two sets of mated connectors at both ends.

1b: GPON and XGS-PON and OTDR

Scenario **1b: GPON, XGS-PON and OTDR**

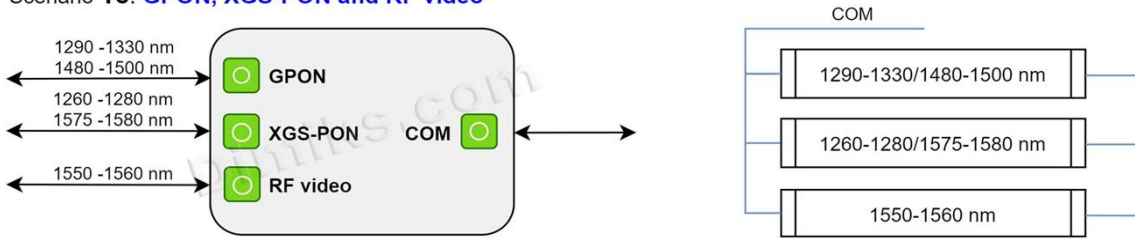


Parameter	Specification		Unit
Bandpass			
GPON (GPON band)	1290-1330/1480-1550		nm
XGS-PON (XGS-PON band)	1260-1280/1575-1580		nm
OTDR (OTDR band)	1625-1675		nm
Insertion Loss*	Initial Max	Eol Max	
COM - GPON (GPON band)	0.8	0.9	dB
COM - XGS-PON (XGS-PON band)	1	1.1	dB
COM - OTDR (OTDR band)	1.2	1.3	dB
Uniformity	Initial Max	Eol Max	
	0.6	0.8	dB
Wavelength Isolations	min		
COM - GPON (XGS-PON & OTDR bands)			30 dB
COM - XGS-PON (GPON & OTDR bands)			30 dB
COM - OTDR (GPON & XGS-PON bands)			30 dB
Return Loss	min		
All Ports			55 dB
Directivity	min		
All Ports			55 dB
Port C (GPON Port)			60 dB
PDL (Polarization Dependant Loss)	Initial Max	Eol Max	
All Ports	0.2	0.35	dB
(Polarization Mode Dispersion)	Max		
All Ports			0.2 ps
Optical Power Handling	Max		
Any individual port			300 mW
Environmental Performance	Normal	Short Term	
Operating Temperature	-5 to +40	-5 to +50	°C
Operating Relative Humidity	5 to 85	5 to 90	% RH
Storage Temperature	-40 to +85		°C
Operating Relative Humidity	Up to 93		% RH
Reliability	Designed to meet the mechanical and Environmental		

Insertion Loss includes WDL, TDL and PDL WITH two sets of mated connectors at both ends.

1c: GPON and XGS-PON and RF video

Scenario 1c: GPON, XGS-PON and RF video

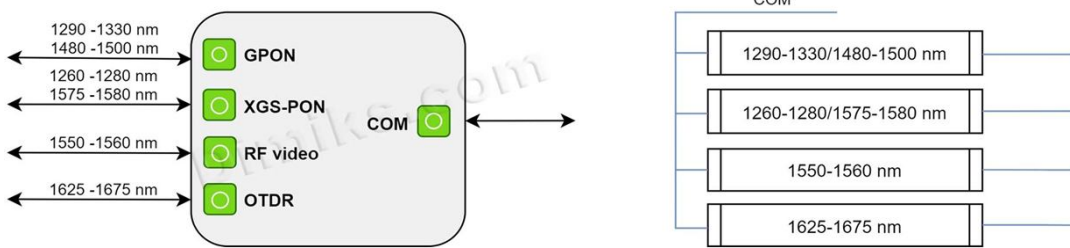


Parameter	Specification		Unit
Bandpass			
GPON (GPON band)	1290-1330/1480-1550		nm
XGS-PON (XGS-PON band)	1260-1280/1575-1580		nm
Video (Video band)	1550-1560		nm
Insertion Loss*	Initial Max	Eol Max	
COM - GPON (GPON band)	0.8	0.9	dB
COM - XGS-PON (XGS-PON band)	1	1.1	dB
COM- Video (Video band)	1.2	1.3	dB
Uniformity	Initial Max	Eol Max	
	0.6	0.8	dB
Wavelength Isolations	min		
COM - GPONXGS-PON & OTDR bands)			30 dB
COM - XGS-PON (GPON & OTDR bands)			30 dB
COM - Video (GPON & XGS-PON bands)			30 dB
Return Loss	min		
All Ports			55 dB
Directivity	min		
All Ports			55 dB
Port C (GPON Port)			60 dB
PDL (Polarization Dependant Loss)	Initial Max	Eol Max	
All Ports	0.2	0.35	dB
(Polarization Mode Dispersion)	Max		
All Ports			0.2 ps
Optical Power Handling	Max		
Any individual port			300 mW
Environmental Performance	Normal	Short Term	
Operating Temperature	-5 to +40	-5 to +50	°C
Operating Relative Humidity	5 to 85	5 to 90	% RH
Storage Temperature	-40 to +85		°C
Operating Relative Humidity	Up to 93		% RH
Reliability	Designed to meet the mechanical and Environmental		

Insertion Loss includes WDL, TDL and PDL WITH two sets of mated connectors at both ends.

1d: GPON and XGS-PON, OTDR and video RF

Scenario **1d**: GPON, XGS-PON, RF video, OTDR



Parameter	Specification		Unit
Bandpass			
GPON (GPON band)	1290-1330/1480-1500		nm
XGS-PON (XGS-PON band)	1260-1280/1575-1580		nm
Video (Video band)	1550-1560		nm
OTDR (OTDR band)	1625-1675		nm
Insertion Loss*	Initial Max	Eol Max	
COM - GPON (GPON band)	0.8		0.9 dB
COM - XGS-PON (XGS-PON band)	1		1.1 dB
COM - Video (Video band)	1.2		1.3 dB
COM - OTDR (OTDR band)	1.2		1.3 dB
Uniformity	Initial Max	Eol Max	
	0.6		0.8 dB
Wavelength Isolations	min		
COM - GPON (XGS-PON & OTDR bands)			30 dB
COM - XGS-PON (XGS-PON bands)			30 dB
COM - OTDR (GPON & XGS-PON bands)			30 dB
COM - Video (GPON & XGS-PON bands)			30 dB
Return Loss	min		
All Ports			55 dB
Directivity	min		
All Ports			55 dB
Port C (GPON Port)			60 dB
PDL (Polarization Dependant Loss)	Initial Max	Eol Max	
All Ports	0.2		0.35 dB
(Polarization Mode Dispersion)	Max		
All Ports			0.2 ps
Optical Power Handing	Max		
Any individual port			300 mW
Environmental Performance	Normal	Short Term	
Operating Temperature	-5 to +40	-5 to +50	°C
Operating Relative Humidity	5 to 85	5 to 90	% RH
Storage Temperature	-40 to +85		°C
Operating Relative Humidity	Up to 93		% RH
Reliability	Designed to meet the mechanical and Environmental		

Insertion Loss includes WDL, TDL and PDL WITH two sets of mated connectors at both ends.