

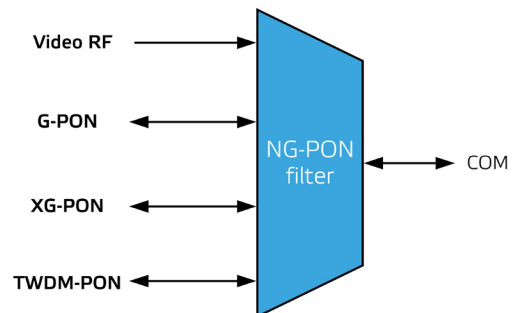
Optical Passives

WDM FILTERS NGPON FILTER

Enhance the speed and maximize the density in existing GPON networks with the Next Generation PON filters, with XG-PON og TWDM-PON modules.

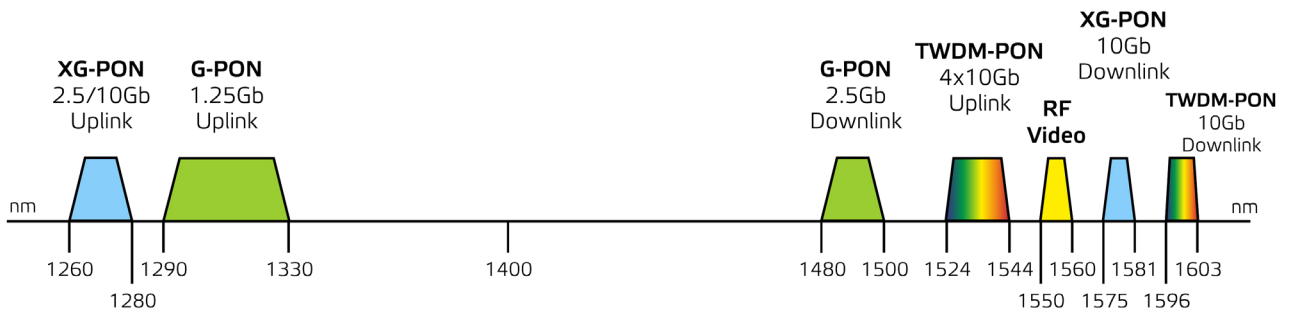
Properties:

- Filter with GPON, XG-PON and TWDM-PON bands
- 3 pcs. WDM modules in one box
- High Isolation
- Low Insertion Loss
- High Return Loss with APC connectors

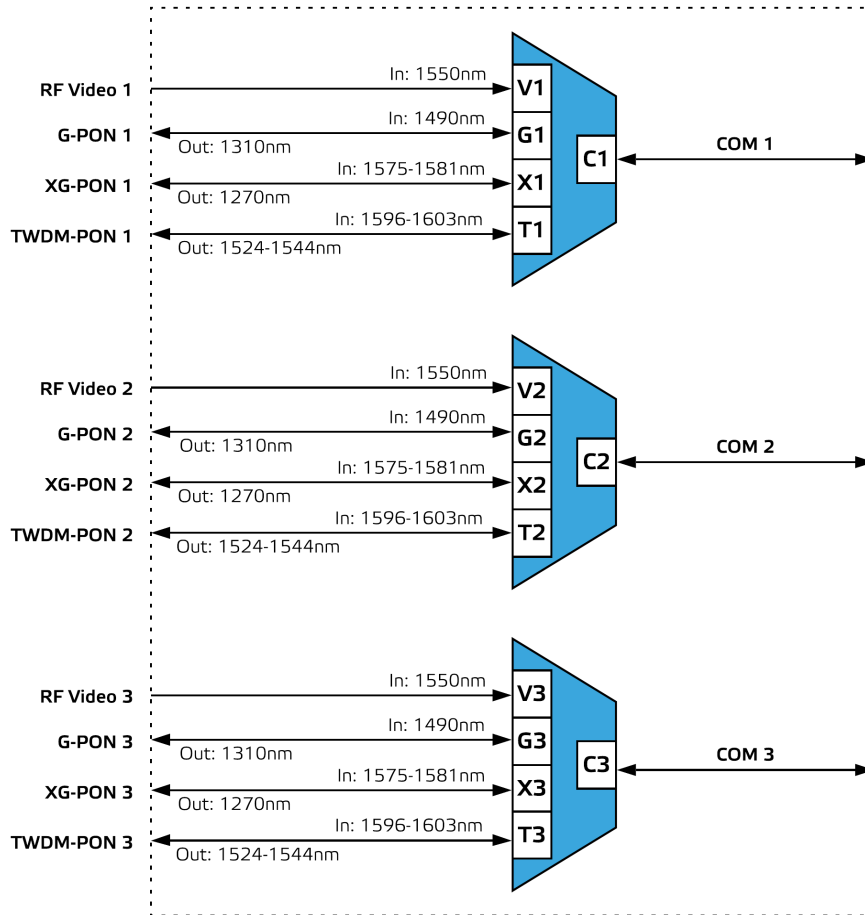


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OPTICAL SPECTRUM



BLOCK DIAGRAM



Port	Port Name	Wavelengths
C1 - C2 - C3	COM	Line Side
V1 - V2 - V3	RF Video	1550 - 1560nm
G1 - G2 - G3	G-PON	1290 -1330nm Upstream 1480-1500nm Downstream
X1 - X2 - X3	XG-PON	1260-1280nm Downstream 1575-1581nm Upstream
T1 - T2 - T3	TWDM-PON	1524-1544nm Downstream 1596-1603nm Upstream

SPECIFICATIONS

Parameters		Specification (Typical values)
Product Number		248163
Operating Wavelength		1260~1625 nm
G-PON OLT band	Wavelength Range	1290 to 1330 & 1480 to 1500 nm
	Insertion Loss	<0.8 dB
	Isolation @ 1260-1280 nm & 1524-1603 nm	< 50 dB
XG-PON band	Wavelength Range	1260 to 1280 & 1575 to 1581 nm
	Insertion Loss	<0.8 dB
	Isolation @ 1290-1560 nm & 1596-1603 nm	< 50 dB
TWDM-PON band	Wavelength Range	1524 to 1544 & 1596 to 1603 nm
	Insertion Loss	<1 dB
	Isolation @ 1260-1500 nm & 1550-1581 nm	<18 dB
Video Band	Wavelength Range	1550 to 1560 nm
	Insertion Loss	<0.8 dB
	Isolation @ GPON (1260-1330 & 1480-1500) XG-PON (1524-1544 & 1575) TWDM-PON (1581&1596-1603)	<50 dB
Polarization Dependent Loss		≤0.20 dB
Polarization Mode Dispersion		≤ 0.15 ps
Return Loss		>50 dB
Directivity		>50 dB
Maximum Power Handling		500 mW
Operating Temperature		-5 to 70 °C
Storage Temperature		-40 to 85 °C
Fiber Type		Corning G657A2 Fiber
Connector Type		LC /APC
Package Dimension		2U LGX box (150x56x34mm)



TELESTE CORPORATION

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Publication Name

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