



## Coexistence Filter for RF Overlay, GPON, and XG(S)PON



### LGX Module w/ WDM Filters illustrated

(All parameters are referenced without connectors. Typical connector loss 0.25 dB/pair)

Parameters	Specifications	Unit
GPON Band	1290~1330 / 1480~1500	nm
XGPON Band	1260~1280 / 1575~1580	nm
Video (1550)	1525~1560	nm
GPON Band insertion loss	< 1.0/1.5	dB
XGSPON Band insertion loss	< 1.0/1.5	dB
Video Band insertion loss	< 1.0/1.5	dB
Isolation	Com to G, XGS PON $\geq$ 30, Vid > 15	dB
PDL (Polarization dependence loss)	> 0.5ps/km0.5	dB
PMD (Polarization mode dispersion)	< .2	ps
Return Loss	> 50	dB
Directivity	> 50	dB
Optical Power Handling	+23	dBm
Operating Temperature	-5~70	°C
Storage Temperature	-40~85	°C
Optical Connector Type (Single)	SC/APC on Sigle LGX Module	
Optical Connector Type (QUAD)	LC/APC on 4-way LGX Module	

Form factor or dimensions may be customized and fit into

Part# **MX-G-X-PON-RFO** Optional: LGX Mounting Plate (holds 3 LGX modules in 1U 19") part# **IMX/LGX-3-1R-F**

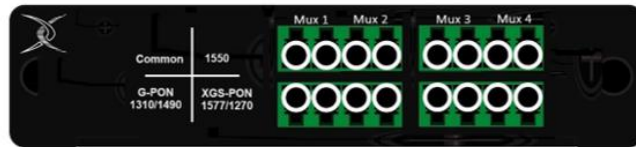


[WWW.MAXCOMCORP.COM](http://WWW.MAXCOMCORP.COM)

**Model: MX-G-X-PON-RFO**



Example Configuration in LGX format.  
Shown above in a Single, available with  
4 in 1 as shown to the right.



4 muxes in 1 LGX Module

WAVELENGTH DETAIL for GPON, xGPON, and RFoG:

