

Filter Specifications

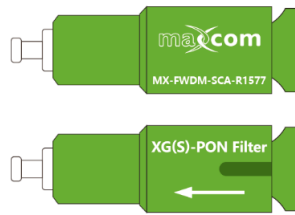
Features

1. Easy to install
2. Low insertion loss
3. Environmental stability
4. Bi-directional

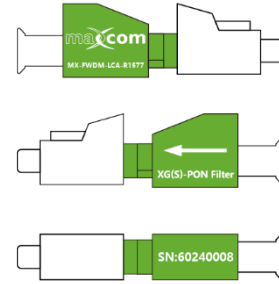
Applications

1. FTTx
2. XG-PON/XGS-PON/10G PON
3. Block XG-PON signals
4. Install at existing ONU

Maxcom SC and LC Style Pluggable Blocking Filters are made for systems that want to deploy XGS PON (10G/XG-PON) services to their existing GPON network. This solution is used for fiber to the home/premises (FTTx) and with GPON for a simple, economic, high performance, and compact approach. The blocking filter is easily installed on existing ONU equipment to block the 1577nm XGS PON (1577nm) signals that could cause interference to their existing GPON or RF Overlay customers. It may also be used in networks deploying a 1550nm RF Overlay to prevent interference to RF Receivers (Prevents 1577nm wavelength from interfering with the 1550nm RF signal to the receiver).



SC/APC Example

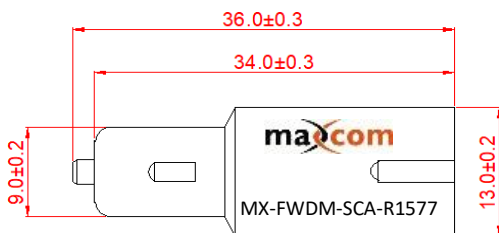


LC/APC Example

Specification

Blocked Wavelength:	Block/Filter Center Wavelength 1577 nm (1574~1581 nm)					
	Parameter	Units	Minimum	Typical value	Maximum	Remarks
Insertion Loss :	1290nm-1310nm	dB	.8	1.2	1.5	
	1480nm-1550nm	dB	.8	1.5	1.7	
	1550nm-1560nm	dB	.8	1.5	1.7	
	PDL / PMD	dB			.2	0.2 ps
Return Loss:	1290nm-1310nm	dB	30			
	1480nm-1550nm	dB	30			
	1550nm-1560nm	dB	45			
Maximum Input power:		dBm	27			
Durability:		times	500			
Connector :	SC/APC Male & SC/APC Female (optional LC/APC Male & LC/APC Female)					
Application Environment:	-40°C~+85°C storage / -5°C~+70°C operating temp					

Diagram



SC/APC Example

Maxcom Part Numbers:

MX-FWDM-SCA-R1577 (SC/APC)
MX-FWDM-LCA-R1577 (LC/APC)

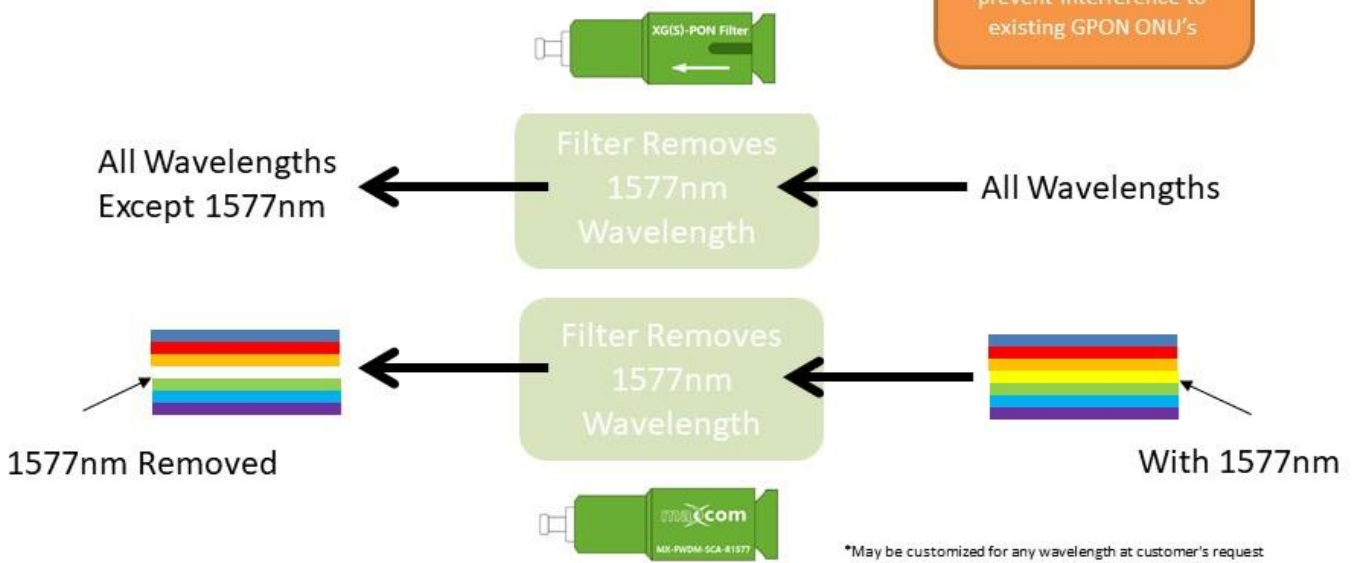
Additional Custom wavelengths and filter configurations available. Contact your Maxcom Rep for additional information.

Application Diagram

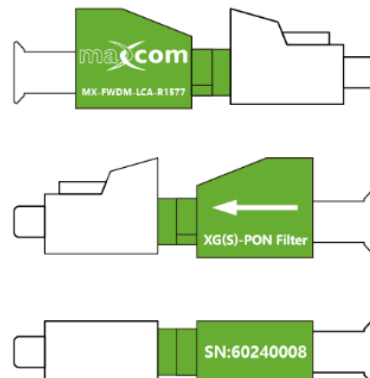


MX-FWDM-SCA-R1577

Removes XGSPON (10G) 1577nm wavelength to prevent interference to existing GPON ONU's



SC/APC Example



LC/APC Example

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