

WD1543 Series
1550 & 1310/1490nm MWDM
Technical Specification

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1.0 PRODUCT DESCRIPTION

WD1543 WDM is based on mature thin film filtering tech, with wide bandwidth, flatness, low insertion loss and high isolation. It is mainly applied to FTTx PON network to achieve the combination and separation of the 1550nm (CATV) and 1310/1490nm (data).

2.0 PRODUCT FEATURE

- Low insertion loss
- High channel isolation
- High band flatness
- High stability and reliability

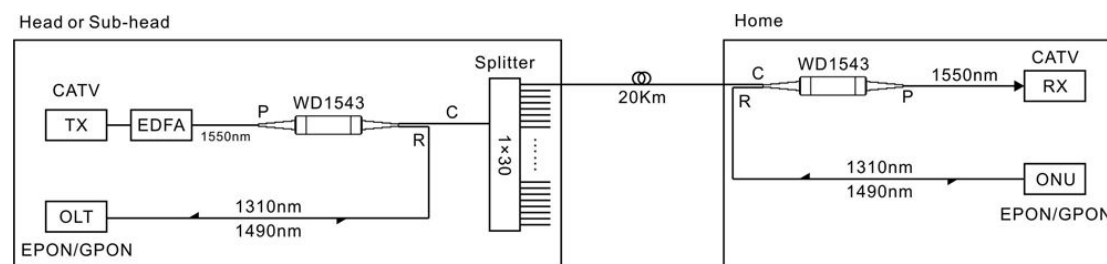
3.0 MAIN APPLICATION

- FTTx PON (EPON, GPON)
- Triple-play

4.0 TECHNICAL INDEX

Performance		Index			Supplement
		Min.	Typ.	Max.	
Transmission channel wavelength range		(nm)	1540		1565
Reflection channel wavelength range		(nm)	1260~1360 & 1480~1500		
Insertion loss	Transmission channel	(dB)			0.4
	Reflection channel				0.3
Isolation	Transmission channel	(dB)	40	45	
	Reflection channel		20	25	
Polarization dependence loss	Transmission channel	(dB)			0.02
	Reflection channel				0.03
Directivity		(dB)	50		
Echo loss		(dB)	50		
Power handling		(mW)			500
Operating temp.		(℃)	-20		+85
Storage temp.		(℃)	-40		+85
Fiber type			SMF-28e with 900 μ m loose tube		
Fiber length		(m)		1.2	
Optical connector			SC/APC		
External dimension		(mm)	Φ5.5×34		
			100×80×10		

5.0 THE APPLICATION OF MWD1543 IN FTTX PON NETWORK



8.0 MODEL EXPLANATION

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Product series		Transmission wavelength		Reflection wavelength		Dimension		Connector	
WD	Band multiplexer	15	1540~1565nm	43	1310/1490nm	S0	Φ5.5×34mm	00	None
						M1	100×80×10mm	SA	SC/APC
								SP	SC/UPC
								FA	FC/APC
								FP	FC/UPC
								LA	LC/APC
								LP	LC/UPC