

WD5943

RFoG 4-Band multiplexer

1550, 1590 & 1310/1490nm MWDM

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Catalogue

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1.0 PRODUCT DESCRIPTION

WD5943 4-Band multiplexer is based on mature thin film filtering tech, with wide bandwidth, flatness, low insertion loss and high isolation. It is mainly applied to 256 RFoG FTTx PON network to achieve the combination and separation of the 1550nm (CATV), 1590nm and 1310/1490nm (data).

2.0 PRODUCT FEATURE

- low insertion loss
- high channel isolation
- high flatness
- high reliability and stability

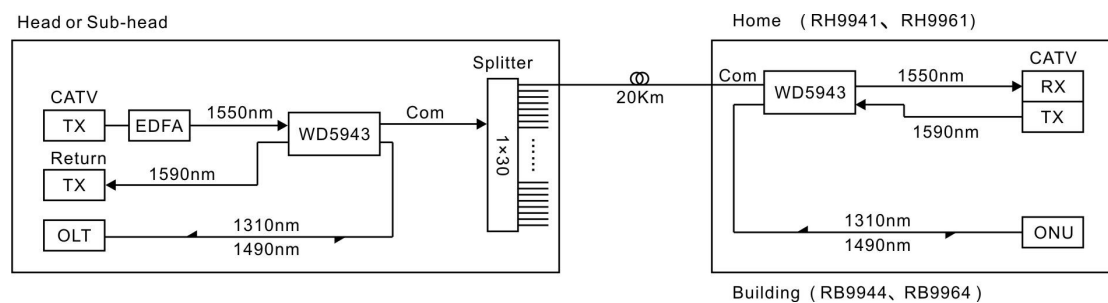
3.0 MAIN APPLICATION

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

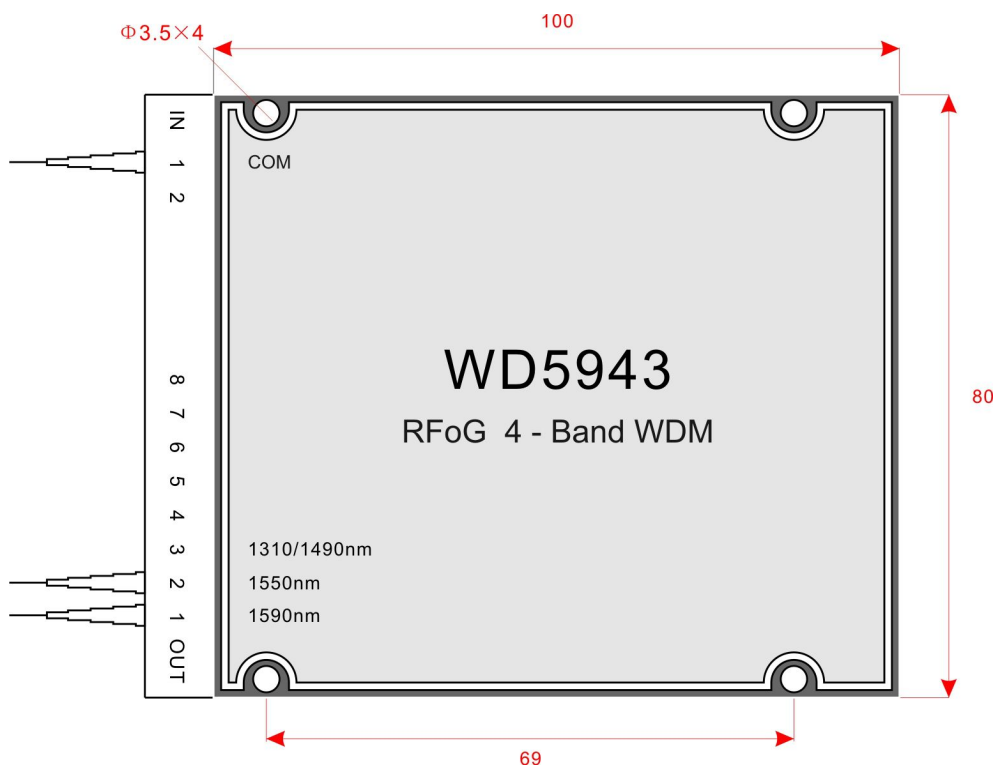
4.0 TECHNICAL INDEX

Performance			index			Supplement
			Min.	Typ.	Max.	
Transmission wavelength	$\lambda 1$	(nm)	1540	1550	1565	
	$\lambda 2$		1580	1590	1620	
Reflection wavelength	$\lambda 3$	(nm)	1260~1360	1310/1490	1480~1500	
Insertion loss	$\lambda 1$	(dB)			0.8	
	$\lambda 2$				0.7	
	$\lambda 3$				0.3	
Isolation	$\lambda 1$	(dB)	60			
	$\lambda 2$		50			
	$\lambda 3$		25			
Direction		(dB)	50			
Echo loss		(dB)	50			
Power handling		(mW)			500	
Operating temp.		($^{\circ}$ C)	-20		+85	
Storage temp.		($^{\circ}$ C)	-40		+85	
Optical fiber length		(m)	0.5			
Optical fiber type			SMF-28e with 900 μ m loose tube			
Fiber connector			SC/APC			Other options
External dimension		(mm)	100 \times 80 \times 10			

5.0 APPLICATION IN FTTX PON NETWORK



6.0 EXTERNAL DIMENSION - M2



7.0 PRODUCT SERIES

Model number	Transmission wavelength ($\lambda 1$)	Transmission wavelength ($\lambda 2$)	Reflection wavelength ($\lambda 3$)	External	Connector
WD5943-M2-SA	1550nm (1540~1565nm)	1590nm (1580~1620nm)	1310/1490nm (1260~1380nm &1480~1500nm)	M2 100×80 ×10mm	SC/APC
WD5943-M2-FA					FC/APC
WD5943-M2-LA					LC/APC

8.0 Model explanation

WD 5 9 43 - M2 - S A

Product series		Transmission wavelength ($\lambda 1$)		Transmission wavelength ($\lambda 2$)		Reflection wavelength ($\lambda 3$)		Dimension		Connector	
WD	Band multiplexer	5	1550nm	9	1590nm	43	1310/1490nm	M2	100×80×10mm	SA	SC/APC
										SP	SC/UPC
										FA	FC/APC
										FP	FC/UPC
										LA	LC/APC
										LP	LC/UPC