

OPTICAL SPLITTERS [OS-x1x-x-x-x-x-x]

Fiber Products, Optical Splitter Series

Description

Taikan's OS Series, passive optical splitter, is available in either a single, dual wavelength (fused bi-conical taper type, FBT), or multiwavelength (planar lightwave circuit type, PLC).

Both the FBT and PLC splitter are available in a box or rack mount housing. The PLC splitter can be split in equal ratios while the FBT splitter supports various ratio combinations.

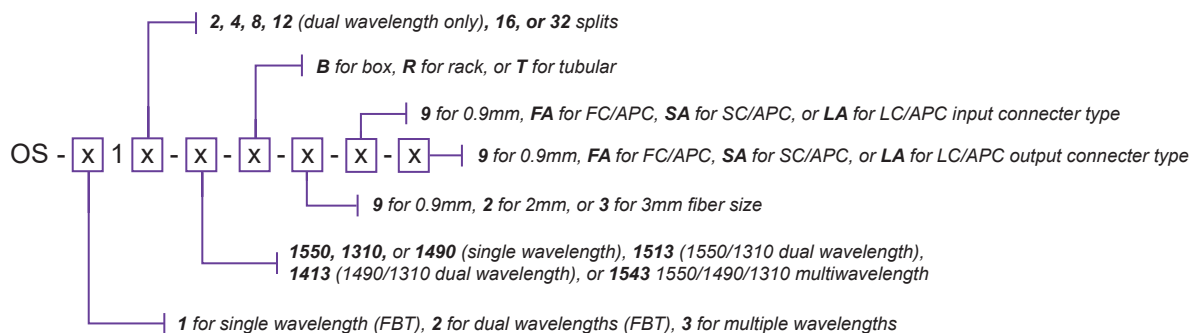
The optical splitter is applicable for use in any type of passive optical network (EPON, GPON, BPON, FTTx or FTTH).

Features

- Supports Multiple Wavelengths
- Splitter Options Include 2, 4, 8, 16, and 32 way
- Low Signal Loss
- Low Polarization Dependant Loss
- FBT (Single/Dual Wavelength) or PLC (Multiwavelength) Splitters Available
- PLC Splitter is Split into Equal Ratios and the FBT can be Adjusted to Customized Ratios



Ordering Information



Model Number	Description	Splitter Types
OS-11x-x-x-x-x-x	Single Wavelength Optical Splitter	1 x 4, 1 x 8, 1 x 16, 1 x 32
OS-21x-x-x-x-x-x	Dual Wavelength Optical Splitter	1 x 4, 1 x 8, 1 x 12, 1 x 16, 1 x 32
OS-31x-x-x-x-x-x	Multiple Wavelength Optical Splitter	1 x 4, 1 x 8, 1 x 16, 1 x 32

Single Wavelength Specifications

	OS-114	OS-118	OS-1116	OS-1132
Output Wavelength (nm)	1310 (±40 nm), 1490 (±40 nm), or 1550 (±40 nm)			
Insertion Loss	6.8 dB	10.2 dB	13.6 dB	17.0 dB
Uniformity Max	≤ 1.4 dB	≤ 2.1 dB	≤ 2.8 dB	≤ 3.5 dB
Reflection Loss (APC)	50 dB	50 dB	50 dB	50 dB
Reflection Loss (UPC)	45 dB	45 dB	45 dB	45 dB
Polarization Dependent Loss	≤ 0.2 dB	≤ 0.3 dB	≤ 0.4 dB	≤ 0.5 dB
Directivity	≥ 60 dB	≥ 60 dB	≥ 60 dB	≥ 60 dB
Size WxDxH (in.)	4.2 x 3.1 x .4	4.9 x 3.8 x .6	5.7 x 4.6 x .7	5.7 x 4.6 x .7

Dual Wavelength Specifications

	OS-214	OS-218	OS-2112	OS-2116	OS-2132
Output Wavelength (nm)	1310 & 1550 (±40 nm) or 1310 & 1490 (±40 nm)				
Insertion Loss	7.4 dB	10.7 dB	12.5 dB	13.7 dB	16.9 dB
Uniformity Max	0.6 dB	0.8 dB	1.5 dB	1.2 dB	1.7 dB
Reflection Loss	50 dB	50 dB	50 dB	50 dB	50 dB
Polarization Dependent Loss	0.2 dB	0.3 dB	0.3 dB	0.3 dB	0.3 dB
Directivity	≥ 55 dB	≥ 55 dB	≥ 55 dB	≥ 55 dB	≥ 55 dB
Size WxDxH (in.)	4.2 x 3.1 x .4	4.9 x 3.8 x .6	5.7 x 4.6 x .7	5.7 x 4.6 x .7	5.7 x 4.6 x .7

Multiwavelength Specifications

	OS-314	OS-318	OS-3116	OS-3132
Output Wavelength (nm)	1310 (±40 nm), 1490 (±40 nm), or 1550 (±40 nm)			
Insertion Loss	7.7 dB	11.5 dB	14.5 dB	18.2 dB
Uniformity Max	0.6 dB	0.8 dB	1.2 dB	1.7 dB
Reflection Loss (APC)	50 dB	50 dB	50 dB	50 dB
Reflection Loss (UPC)	45 dB	45 dB	45 dB	45 dB
Polarization Dependent Loss	0.3 dB	0.3 dB	0.3 dB	0.3 dB
Directivity	≥ 55 dB	≥ 55 dB	≥ 55 dB	≥ 55 dB
Size WxDxH (in.)	4 x 3 x .4	4 x 3.4 x .4	4.7 x 3 x .8	4.7 x 3 x .8

General Specifications

Pigtail Length	1 m (39 in.) or Customer Specified
Fiber Type	SMF 28e or Customer Specified
Operating Temperature	-20 ~ 70 °C (-4 ~ 158 °F)
Storage Temperature	-40 ~ 85 °C (-40 ~ 185 °F)