



1xN (2xN) Single Mode Coupler Module

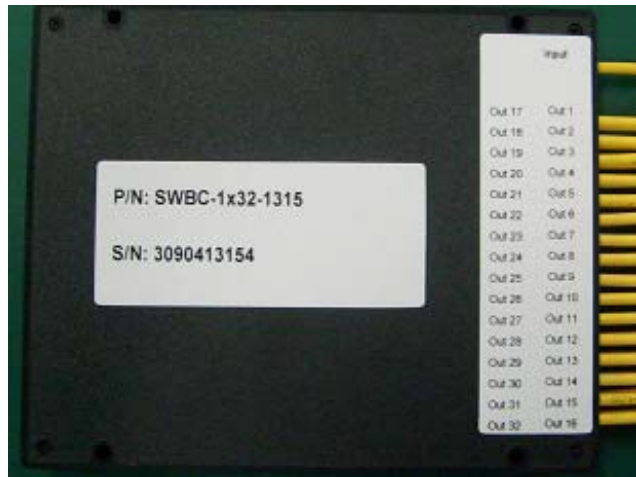
1xN (2xN) coupler splitter modules are cascaded with the single mode couplers. These modules are widely used for FTTH, LAN, and CATV optical networks.

Key Features

- Low excess loss
- Uniform power splitting
- Rugged package
- Excellent environmental & mechanical stability

Applications

- Long-haul telecommunications
- Digital, hybrid and AM-Video systems
- CATV systems
- High speed local area networks
- Fiber sensors



For more Info

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1xN (2xN) Single Mode Coupler Module

Performance Specifications

Parameter	Unit	Standard Type Coupler Module (SSSC); Wide Band Coupler Module (SWBC)															
		N×4		N×6		N×8		N×12		N×16		N×24		N×32			
		N=1, 2		N=1, 2		N=1, 2		N=1, 2		N=1, 2		N=1, 2		N=1, 2			
Operating wavelength	nm	1310 or 1550, others on request															
Operating bandwidth	nm	SSTC: ±15; SWBC: ±40															
Grade	-	P	A	P	A	P	A	P	A	P	A	P	A	P	A		
Insertion loss	dB	≤6.9	≤7.3	≤9.0	≤9.6	≤10.4	≤11.0	≤12.4	≤13.2	≤13.8	≤14.6	≤15.8	≤16.8	≤17.4	≤18.4		
Typical excess loss	dB	0.25		0.3		0.4		0.5		0.55		0.6		0.7			
PDL	dB	≤0.25		≤0.35		≤0.35		≤0.45		≤0.45		≤0.55		≤0.55			
Operating temperature	°C	-40 ~ +85															
Fiber lead length	-	1 meter, others on request															
Fiber type	-	900μm, 2mm, 3mm loose tube															
ABS Box Dimensions(L×W×H)	mm	100×80×10						120×80×18						140×115×18			

Parameter	Unit	Dual Window Coupler Module (SDWC); Three-Window Coupler Module (STWC)															
		N×4		N×6		N×8		N×12		N×16		N×24		N×32			
		N=1, 2		N=1, 2		N=1, 2		N=1, 2		N=1, 2		N=1, 2		N=1, 2			
Operating wavelength	nm	SDWC: 1310 and 1550; STWC:1310,1490 and 1550															
Operating bandwidth	nm	SDWC: ±40; STWC:1310 ±40,1490 ±10 and 1550 ±40															
Grade	-	P	A	P	A	P	A	P	A	P	A	P	A	P	A		
Insertion loss	dB	≤7.2	≤7.6	≤9.6	≤10.2	≤10.8	≤11.4	≤13.2	≤14.0	≤14.4	≤15.2	≤16.8	≤17.8	≤18.0	≤19.0		
Typical excess loss	dB	0.3		0.4		0.45		0.55		0.6		0.7		0.75			
PDL	dB	≤0.3		≤0.4		≤0.4		≤0.5		≤0.5		≤0.6		≤0.6			
Operating temperature	°C	-40 ~ +85															
Fiber lead length	-	1 meter, others on request															
Fiber type	-	900μm, 2mm, 3mm loose tube															
ABS Box Dimensions(L×W×H)	mm	100×80×10						120×80×18						140×115×18			

- Above specification are for device without connector, and may change without notice. All parameters are tested at room temperature.
- Other specifications can be made on customer request.
- For devices with connectors, IL will be 0.3dB higher, RL will be 5dB lower.
- If there is pulse application, please be sure to inform us of pulse energy and peak power.

Order information P/N: FBTC-①-②-③-④-⑤-⑥-⑦-⑧-⑨

When you inquire, please provide the correct P/N number according to our ordering information, and attach the appropriate description would be better. If need any connector, we do not recommend choosing a 250μm bare fiber pigtail.

①	②	③	④	⑤	⑥	⑦	⑧	⑨
Type	Grade	Wavelength	Coupling Ratio (dB)	Port	Fiber Type	Pigtails Diameter	Fiber Length	Connector
SSSC	P: P Grade	13:1310nm	EV: even	104:1x4	S28:SMF-28e	25:250μm	05:0.5m	00:None
SWBC	A:A Grade	14:1490nm	XX: others	204:2x4	X:Others	90:900μm	10:1.0m	FP: FC/PC
SDWC		15:1550nm		106:1x6		20:2.0mm	15:1.5m	FA: FC/APC
STWC		1315:1310&1550nm		206:2x6		30: 3.0mm	XX: Others	SP: SC/PC
		131415:1310&1490&1550nm		108:1x8		XX: Others		SA: SC/APC
				208:2x8				ST: ST/PC
				112:1x12				LP: LC/PC
				212:2x12				LA: LC/APC
				Etc.				XX: Others

Part Number Example #1: FBTC-SSSC-P-15-EV-106-S28-90-10-FA

Description: 1X6 Single Mode Standard Type Coupler Module, 1550nm, P grade, even coupling ratio, SMF-28e fiber, with 0.9mm OD loose tube, 1.0m length fiber pigtails, FC/APC connectors at all ports.

Part Number Example #2: FBTC-SDWC-P-1315-EV-105-S28-90-10-FA

Description: 1x5 Single Mode Dual Window Coupler Module, 1310&1550nm, P grade, even coupling ratio, SMF-28e fiber, with 0.9mm OD loose tube, 1.0m length fiber pigtails, FC/APC connectors at all ports.

Ordering Information for Custom Parts

If you need to customize other specifications, please provide detailed description for your requirement.