



Low PDL Wide Band Coupler (WBC)



Overview:

Besides unique bandwidth expanding techniques (asymmetric techniques), LightComm also uses advanced PIC techniques to build the WBC coupler with both low WDL and the low PDL. This product has been used in EDFA and DWDM communication systems.

Features:

- * Low excess loss
- * Low PDL and WDL
- * High stability and reliability

Applications:

- * EDFA
- * WDM system

Specification:

Parameter		Grade	P	A
Operating wavelength (nm)			1310 or 1550, others on request	
Operating bandwidth (nm)			±40	
Typical excess loss (dB)			0.07	0.1
Insertion loss (dB)	50/50		<3.4	<3.6
	40/60		<4.4/2.6	<4.7/2.8
	30/70		<5.7/1.9	<6.0/2.0
	20/80		<7.8/1.2	<8.0/1.8
	10/90		<11.0/0.65	<11.5/0.8
	5/95		<14.2/0.4	<14.8/0.5
	2/98		<18.5/0.25	<19.0/0.35
	1/99		<21.5/0.2	<22.0/0.3
PDL (dB)			<0.03	<0.05
Directivity (dB)			>55	
Operating temperature (°C)			-40 ~ +85	

*Other specifications can be made on customer request.

Package Information:

Configuration	1×2 or 2×2		
Fiber lead length	1 meter, others on request		
Fiber type	250 μm bare fiber	900 μm loose tube	900 μm/2mm/ 3mm loose tube
Dimensions (φ × L)	φ 3.0mm × 54mm	φ 3.0mm × 70mm	90mm × 14mm × 8.5mm
	φ 2.4mm × 42mm	φ 3.0mm × 54mm	

*Other package dimensions can be made on customer request.

Ordering Information:

WBC-X-XXX-XXXX-XX/XX-X-X-XX/XXX-XX*XX

