



## Mini Size Wide Band Coupler (WBC)



### Overview:

LightComm uses bandwidth expanding techniques (asymmetric techniques) to build the wide band coupler (WBC). The WBC has an operating bandwidth of  $\pm 40\text{nm}$ , the low excess loss and PDL.

The mini size WBC is designed for the compact optical modules and communication systems.

### Features:

- \* Mini size
- \* Low excess loss
- \* Low PDL and low WDL
- \* High stability and reliability

### Applications:

- \* Mini size EDFA
- \* Mini size transmitter/receiver module
- \* Optical communication systems
- \* Testing instruments

**Specification:**

Parameter					
Operating wavelength (nm)		1310 or 1550, others on request			
Operating bandwidth (nm)		±40			
Package size ( $\phi \times L$ ) (mm)		$\phi 2.4 \times 30$		$\phi 2.4 \times 25$	
Grade		P	A	P	A
Typical excess loss (dB)		0.1	0.15	0.15	0.25
Insertion loss (dB)	50/50	< 3.5	< 3.7	< 3.6	< 3.8
	40/60	< 4.5/2.7	< 4.8/2.9	< 4.6/2.8	< 4.9/3.0
	30/70	< 5.8/2.0	< 6.1/2.1	< 5.9/2.1	< 6.3/2.2
	20/80	< 7.7/1.2	< 8.0/1.3	/	/
	10/90	< 11.2/0.65	< 11.8/0.85	/	/
	5/95	< 14.5/0.45	< 15.0/0.55	/	/
	2/98	< 18.5/0.25	< 19.2/0.35	/	/
	1/99	< 21.5/0.25	< 22.2/0.3	/	/
PDL (dB)		< 0.1	< 0.15	< 0.1	< 0.15
Directivity (dB)		> 55			
Operating temperature (°C)		- 40 ~ +85			
Configuration		1 × 2 or 2 × 2			
Fiber lead length		1 meter, others on request			

\*Other specifications can be made on customer request.

**Ordering Information:**

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

