



## Ultra Broadband Dual Window Coupler (DWC)



### Overview:

LightComm uses unique bandwidth expanding techniques (asymmetric techniques) to build the ultra broadband dual window coupler (DWC). The DWC has an operating bandwidth of  $\pm 80\text{nm}$ , and it features low excess loss and low wavelength depend loss (WDL).

### Features:

- \* Ultra broadband
- \* Low PDL
- \* Dual operating window
- \* High stability and reliability

### Applications:

- \* Fiber communication systems
- \* CATV
- \* FTTH

**Specification:**

Type		Ultra broadband DWC	
Parameter			
Operating wavelength(nm)		1310 and 1550	
Operating bandwidth(nm)		±80	
Grade		P	A
Typical excess loss(dB)		0.07	0.10
Insertion loss (dB)	50/50	≤3.8	≤4.0
	40/60	≤5.0/2.8	≤5.2/3.0
	30/70	≤6.4/2.0	≤6.7/2.2
	20/80	≤8.3/1.3	≤8.7/1.5
	10/90	≤11.5/0.7	≤12.0/0.8
	5/95	≤14.6/0.45	≤15.5/0.5
	2/98	≤18.8/0.3	≤19.5/0.4
	1/99	≤22.5/0.25	≤23.5/0.35
PDL (dB)		≤0.15	≤0.20
Directivity(dB)		≥55	
Operating temperature(°C)		-40 ~ +85	

\*Loss around 1380nm (water peak) is not counted in the insertion loss above

**Package Information:**

Configuration	1×2 或 2×2		
Fiber lead length	1 meter, others on request		
Fiber type	250μm bare fiber	900μm loose tube	900μm/2mm/3mm loose tube
Dimensions(φ×L)	φ3.0mm×54mm	φ3.0mm×70mm	90mm×14mm×8.5mm
	φ2.4mm×42mm	φ3.0mm×54mm	

\*Other package dimensions can be made on customer request.