Dual Window Coupler (DWC)

Dual window coupler (DWC) is built by asymmetric coupling technique. The operating bandwidth of this normal coupler is expanding to ±40nm, and the ultra broadband coupler is expanding to ±80nm. The DWC coupler has the same coupling ratio on both 1310nm and 1550nm communication windows, and with low excess loss and low PDL. DWC couplers are widely used for communication systems, CATV, and FTTH.

Features: Low excess loss
Low PDL
Dual operating window
High stability and reliability

Applications: Optical communication systems
CATV
FTTH

Specifications:

Parameter / Type		*Normal*				
Grade		U	P	*A*	P	*A*
Operating wavelength(nm)		*1310 and 1550*				
Operating bandwidth(nm)		*±40*				
Typical excess loss(db)		0.07	0.07	*0.10*	*0.07*	*0.10*
Insertion loss(dB)	50/50	≤3.4	≤3.6	≤3.8	≤3.8	*≤4.0*
	40/60	≤4.5/2.6	≤4.7/2.7	≤4.9/2.9	≤5.0/2.8	*≤5.2/3.0*
	30/70	≤5.7/1.9	≤6.0/1.9	≤6.3/2.1	≤6.4/2.0	*≤6.7/2.2*
	20/80	≤7.6/1.2	≤7.9/1.2	≤8.4/1.4	≤8.3/1.3	*≤8.7/1.5*
	10/90	≤11.0/0.65	≤11.3/0.65	≤12.0/0.8	≤11.5/0.7	*≤12.0/0.8*
	5/95	≤14.2/0.4	≤14.6/0.4	≤15.5/0.5	≤14.6/0.45	*≤15.5/0.5*
	2/98	≤18.4/0.25	≤18.80.3	≤19.5/0.4	≤18.8/0.3	*≤19.5/0.4*
	1/99	≤21.5/0.2	≤22.5/0.25	≤23.5/0.35	≤22.5/0.25	*≤23.5/0.35*
PDL(dB)		≤0.1	≤0.15	*≤0.2*	≤0.15	*≤0.20*
Directivity(dB)		*≥ 5 5*				
Operating temperature(℃)		*- 4 0 ～+ 8 5*				

Package Information:

Configuration	1×2 or 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)	Φ3mm×54mm	Φ3mm×60mm	90mm×14mm×8.5mm