朗光科技
LIGHTCOMM

Wide Band Coupler (WBE)

Overview:

LightComm uses unique bandwidth expanding techniques (asymmetric techniques) to build the wide band coupler (WBC). The WBC has an operating bandwidth of ±40nm, and it features low excess loss and low wavelength depend loss (WDL).

Features:

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

Applications:

* Optical communication system
* LAN
* CATV
* Optical fiber sensors
* Testing instrument

Specification:

Grade / Parameter		P	A
Operating wavelength(nm)		1310 or 1550, or C+L Band	
Operating bandwidth(nm)		±40	
Typical excess loss(dB)		0.07	0.10
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	≤7.6/1.2	≤8.0/1.3
	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)		≤0.10	≤0.15
Directivity(dB)		≥55	
Operating temperature(℃)		-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	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.

Ordering Information:

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

- └—→Package：3.0×54 etc.
- └—→Connector：FC/UPC, FC/APC etc.
- └—→Fiber Type：0=SMF-28, 1=flexcore, 4=others
- └—→Pigtail Type：0=250μm, 1=900μm, 2=2mm, 3=3mm, 4=others
- └—→Coupling Ratio：01/99, 50/50 etc.
- └—→Operating Wavelength：131=1310nm, 155=1550nm, 1315=1310&1550nm etc.
- └—→Port Number：1×2, 2×2etc.
- └—→Grade：P=Perfect, A=Grade A, X=On customer request