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**Configurations:**



**LT20 Series Diplexer**

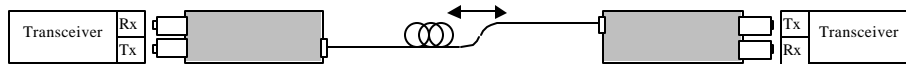
The Diplexer is used to mux/demux 1310 nm/1550 nm broadband or narrowband wavelengths or to mux/demux CWDM onto a single fiber with combinations of low insertion loss, low crosstalk and low back reflection. Small housing dimension and built-in adaptors make the Diplexer an excellent user-friendly product for interconnecting optical systems and reduces fiber needs up to 50%. The Diplexer plugs directly into SFF transceivers and features LIGHTech’s patented reflective optics technology that delivers excellent performance and reliability from -40 to +85 °C.

**Performance Specifications**

	Typ	Max	Unit
Insertion Loss*	0.8	1.4	dB
Crosstalk @ 1310 nm (Tx to Rx) forward	-60	-55	dB
Crosstalk @ 1550 nm (common to Tx) forward	-40	-35	dB
PDL	<0.1	<0.2	dB
Back Reflection (UPC polish)	-55	-52	dB
Operating Temperature	-40 to +85		°C
Housing Dimensions (HxWxL)	<i>LC connectors</i> 8.5 x 13 x 32 <i>SC connectors</i> 11.4 x 25.4 x 40		mm

All specifications referenced with LC/UPC connectors.  
 All specifications referenced at 1310 or 1550 nm with single mode fiber.  
 Other wavelengths are available. Please contact LIGHTech sales support.  
 \* Insertion loss figures assume transmit wavelength is different from receive wavelength.

**Application:**



**Ordering Information:** <sup>(3)</sup>

Example: DPB5B3B-LCU2

		Transmit wavelength		Receive wavelength		Code		Internal fiber	
		Code	Wavelength			Code	Connector Type		
Broadband		3B	1310 ± 30 nm			2	LC/APC	SMF-28 single mode <sup>(1)</sup>	
		5B	1550 ± 30 nm			5	LC/PC	G.I. 50/125 multimode <sup>(2)</sup>	
Narrowband		3N	1310 ± 5 nm			6	LC/UPC	G.I. 62.5/125 multimode <sup>(2)</sup>	
		5N	1550 ± 5 nm			S	SC/APC	Special <sup>(2)</sup>	
CWDM		47	1471 ± 10 nm			SCA	SC/PC		
		49	1491 ± 10 nm			SCP	SC/PC		
		51	1511 ± 10 nm			SCU	SC/UPC		
		53	1531 ± 10 nm			SSS	Special		
		55	1551 ± 10 nm						
		59	1591 ± 10 nm						
	61	1611 ± 10 nm							
	Other	Contact Sales							

(1) Product standards  
 (2) Cause specification change  
 (3) Custom specifications available

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