

1F., No.40, Aly. 22, Ln. 143, Ruiping Rd., Yangmei Disty, Taoyuan City 32658, Taiwan TEL: +886-3-4828372 Fax: +886-3-4828377 URL: www.prostal.com.tw E-MAIL: joan@prostal.com.tw

### Single-Mode WIC Splitter

Our Single-mode wideband coupler can make the optical signal re-coupled in the special couple area during the transmission, then reassigned the optical power. The single mode optic-fiber tree and star couplers can couple the optical signals in the coupling area, and then re-distribute the light power. The key parameters include operating wavelength, bandwidth, and excess loss, coupling ratio, PDL and so on.

### **Key Features:**

- Low Insertion loss
- High Return Loss
- Option Coupling Ratio
- Wide Operating Temperature
- Excellent Environmental & Mechanical Stability
- Qualified Under Telcordia GR-1221 and GR-1209

### **Applications:**

- FTTX (FTTP, FTTH, FTTN, FTTC)
- Passive Optical Networks (PON)
- Local Area Networks (LAN)
- EDFA systems
- Test Equipments



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### **Optical Specifications:**

Coupling Datio	Insertion Loss (dB)				
Coupling Ratio	P Grade	A Grade			
50/50	3.5/3.5	3.6/3.6			
40/60	4.7/2.7	5.0/2.9			
30/70	6.0/1.9	6.4/2.1			
20/80	7.9/1.2	8.5/1.4			
10/90	11.3/0.6	12.7/0.8			
05/95	14.0/0.45	17.5/0.5			
01/99	21.0/0.2	21.5/0.25			
Excess Loss (dB)	0.10	0.15			
PDL (dB)	0.10	0.15			
Operation Wavelength (nm)	1310±40, 1550±40,1310/1550±40,1310/1550±40/1490±20				
Directivity (dB)	≥55				
Return Loss (dB)	≥55				
Channel Number	1×2 or 2×2				

Parameter	Unit	Specification							
Operating	nm	Oin the Millio down 1 Devel Three Millio down 2							
Wavelength			Single Window <sup>1</sup> Dual, Three Window <sup>2</sup>						
(1×N)		N=3	N=4	N=5	N=8	N=16	N=24	N=32	N=64
Fiber Type			Corning SMF-28e						
IL(MAX)	dB	5.4 <sup>1</sup> /5.6 <sup>2</sup>	7.0 <sup>1</sup> /7.2 <sup>2</sup>	7.8 <sup>1</sup> /8.0 <sup>2</sup>	10.0 <sup>1</sup> /10.4 <sup>2</sup>	13.5 <sup>1</sup> /13.9 <sup>2</sup>	15.0 <sup>1</sup> /15.4 <sup>2</sup>	17.3 <sup>1</sup> /17.5 <sup>2</sup>	21.0 <sup>1</sup> /21.5 <sup>2</sup>
Uniformity	dB	0.5 <sup>1</sup> /0.6 <sup>2</sup>	0.5 <sup>1</sup> /0.6 <sup>2</sup>	0.6 <sup>1</sup> /0.8 <sup>2</sup>	0.8 <sup>1</sup> /1.0 <sup>2</sup>	1.1 <sup>1</sup> /1.3 <sup>2</sup>	1.2 <sup>1</sup> /1.5 <sup>2</sup>	1.3 <sup>1</sup> /1.5 <sup>2</sup>	2.1 <sup>1</sup> /2.5 <sup>2</sup>
Return Loss	dB	≥55							
Directivity	dB	≥55							
PDL	dB	<0.20	<0.20	<0.30	< 0.30	<0.40	< 0.50	< 0.50	< 0.50

(1×N) : Equal Coupling Ratio

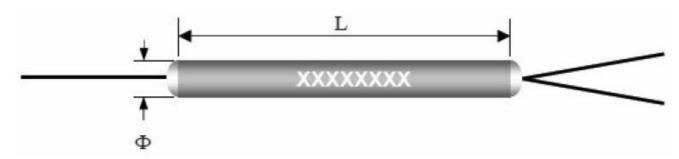
### **Environmental Conditions:**

Operating Temperature	°C	-20~+70	
Storage Temperature	°C	-40~+85	
Operating Humidity	%RH	≤93	
Storage Humidity	%RH	≤93	

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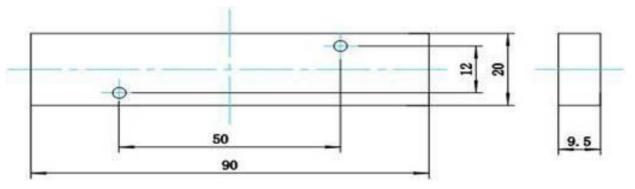
### **Device Schematic Drawing:**

#### **Stainless Steel Tube:**

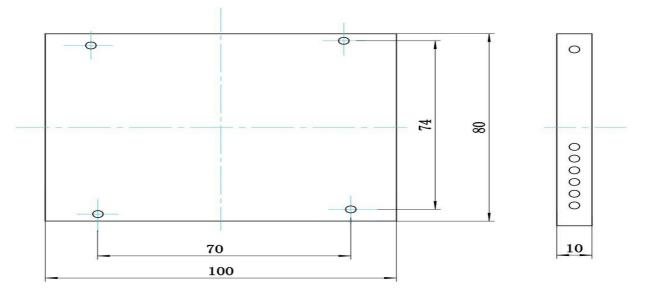


#### **Plastic Box:**

1) 90 X20 X9.5mm



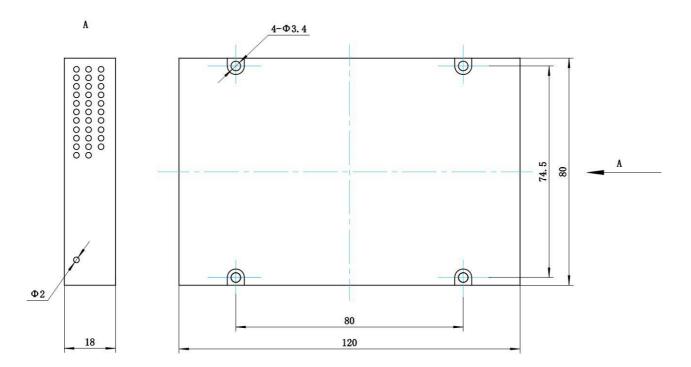
### 2) 100 X80 X10mm



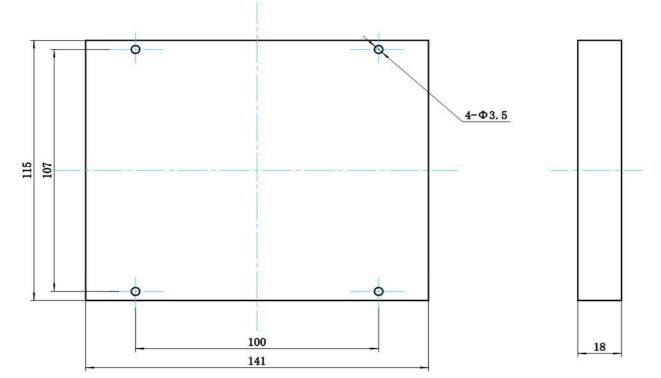


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### 4) 120 X80 X18mm



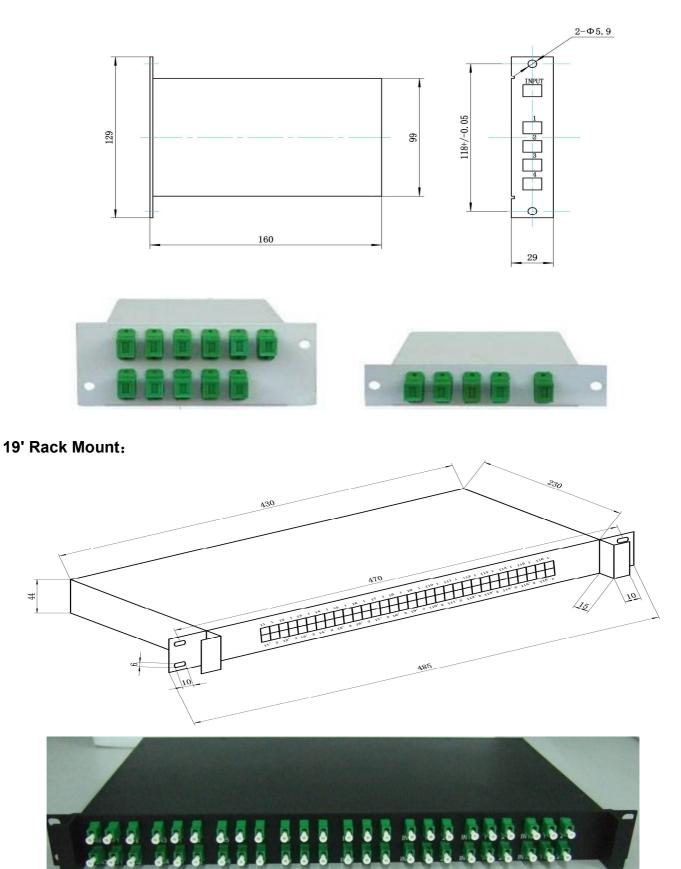
#### 5) 141 X115 X18mm





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### LGX Box:

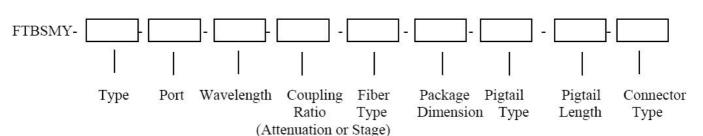




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### **Ordering Information:**



S=Coupler A=In-Line Attenuator W=WDM Туре Port 0101=1x1, 0102=1x2, ..., 0404=4x4, ..., 0132=1x32, 0232=2x32 98=980, 13=1310, 14=1490, 15=1550 Wavelength 1314=1310&1490, 1315=1310&&1550, 345=1310&1490&1550 85=850, 9815=980&1550, 8513=850&1310 01=1/99 or 1dB or 1 Stage,02=2/98 or 2dB or 2 Stage,03=3/97 or 3dB or 3 Stage Coupling Ratio (Attenuation 05=5/95 or 5dB, 10=10/90 or 10dB, 15=15/85 45=45/55, 00=equal ratio, X=Others, W=WDM or Stage) Fiber Type 1=G652D, 2=G657A, 5=50/125, 6=62.5/125, X=Others

Package Dimension	B1, B2,, F, K			
Pigtail Type	B=250µm Bare fiber, L=900µm Loose tube, S=2.0mm, R=3.0mm, 0=Adapter			
Pigtail Length	0520=0.52.0m, 0=Adapter, X=Others			
Compositor Three	FU=FC/UPC, FA=FC/APC, SU=SC/UPC, SA=SC/APC,			
Connector Type	ST=ST/UPC, LU=LC/UPC, LA=LC/APC, 00=None, X=Others			

#### **Packaging Information**

Pigtail Type	1x1	1x2	2x2	<=9 Ports	<=18 Ports	<=34 Ports
Bare Fiber	/	B1	B1	/		
Ф0.9	B2	B2	B5			1
Ф2.0		D	D	Е	К	F
Ф3.0	B4/D	D	D			
Rack Mount	XU/XG					

#### Package Dimensions (mm)

B1 Φ3x50 steel tube		X	Custom Specifies
B2 $\Phi$ 3x54 steel tube		E	100x80x10 plastic case
B3	$\Phi$ 3.5x54 steel tube	F	141x115x18 plastic case
B4	$\Phi$ 5x70 steel tube	K	120x80x18 plastic case
B5 Φ3x60 steel tube		XU	19" x=1,2,3,4 U Rack Mount
D 90x20x9.5 plastic case		XG	X=1,2,3,4 U LGX box