



Prostal Limited.

Vat number: 24849130

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 Ratio | Insertion Loss (dB) | |
|---------------------------|--|-----------|
| | 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 Wavelength | nm | Single Window ¹ Dual,Three Window ² | | | | | | | |
| | | (1×N) | | N=3 | N=4 | N=5 | N=8 | N=16 | N=24 |
| Fiber Type | | Corning SMF-28e | | | | | | | |
| IL(MAX) | dB | 5.4 ¹ /5.6 ² | 7.0 ¹ /7.2 ² | 7.8 ¹ /8.0 ² | 10.0 ¹ /10.4 ² | 13.5 ¹ /13.9 ² | 15.0 ¹ /15.4 ² | 17.3 ¹ /17.5 ² | 21.0 ¹ /21.5 ² |
| Uniformity | dB | 0.5 ¹ /0.6 ² | 0.5 ¹ /0.6 ² | 0.6 ¹ /0.8 ² | 0.8 ¹ /1.0 ² | 1.1 ¹ /1.3 ² | 1.2 ¹ /1.5 ² | 1.3 ¹ /1.5 ² | 2.1 ¹ /2.5 ² |
| 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 | ℃ | -20~+70 |
| Storage Temperature | ℃ | -40~+85 |
| Operating Humidity | %RH | ≤93 |
| Storage Humidity | %RH | ≤93 |



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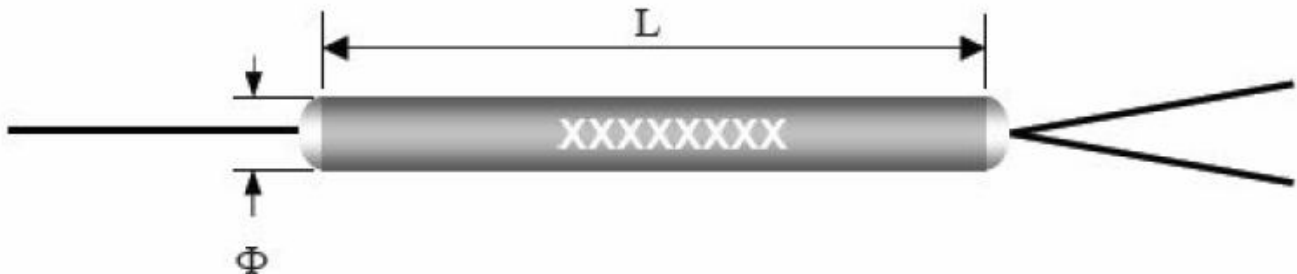
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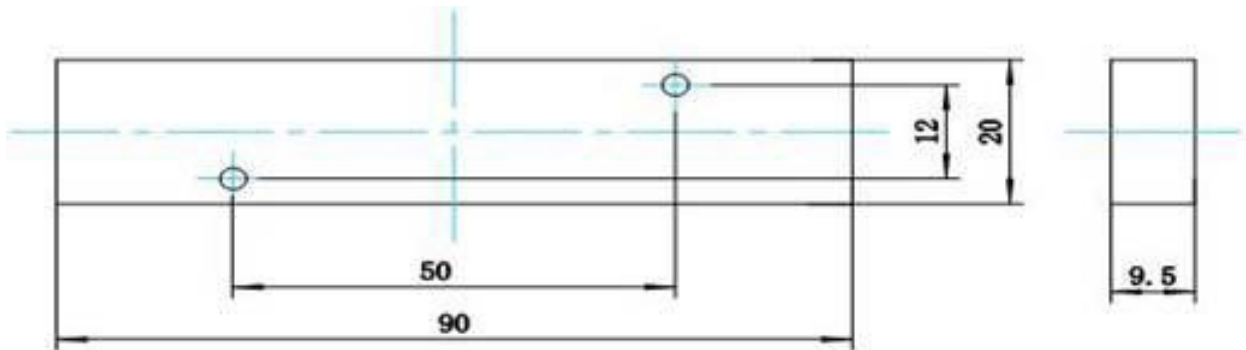
Device Schematic Drawing:

Stainless Steel Tube:

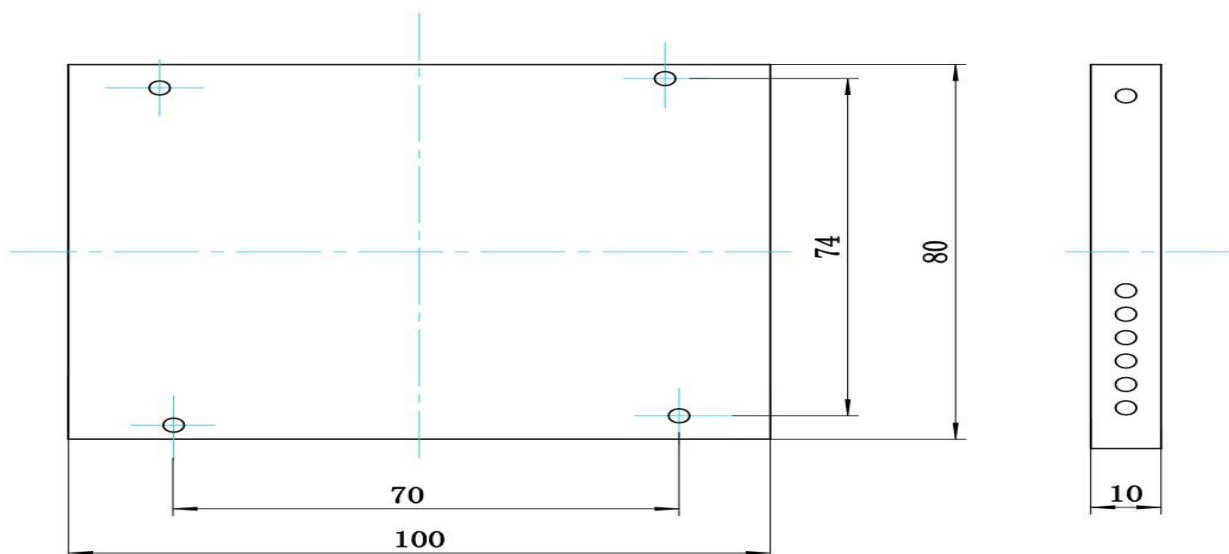


Plastic Box:

1) 90 X20 X9.5mm



2) 100 X80 X10mm





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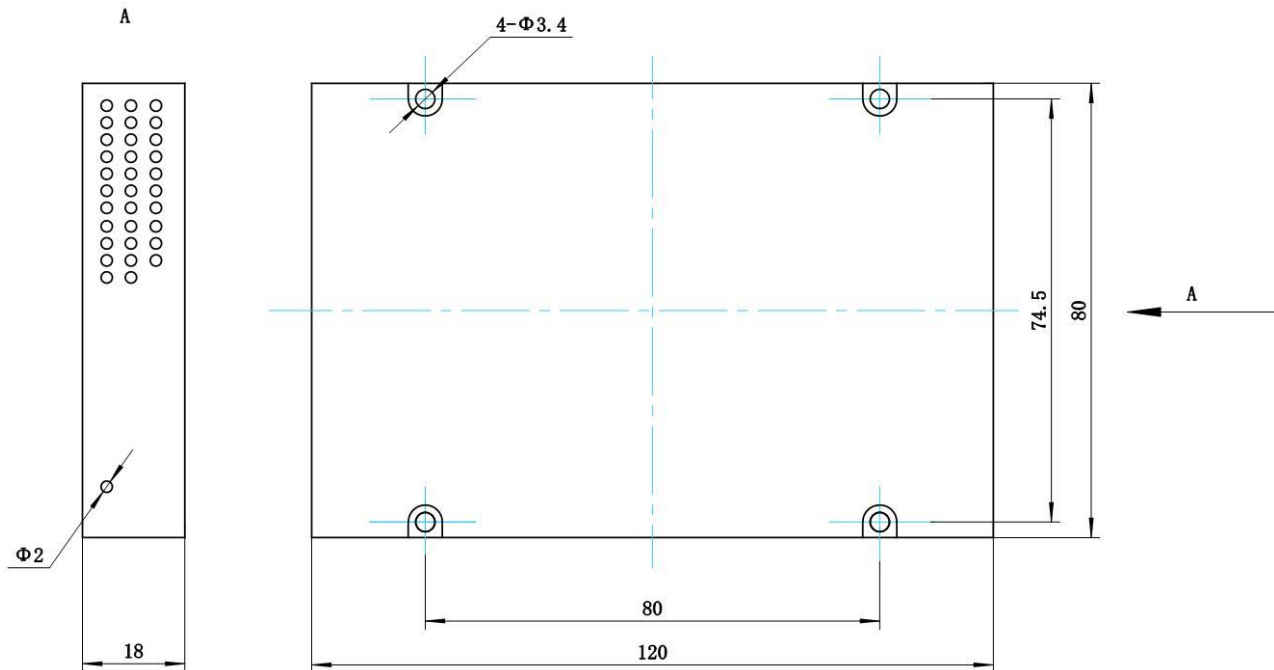
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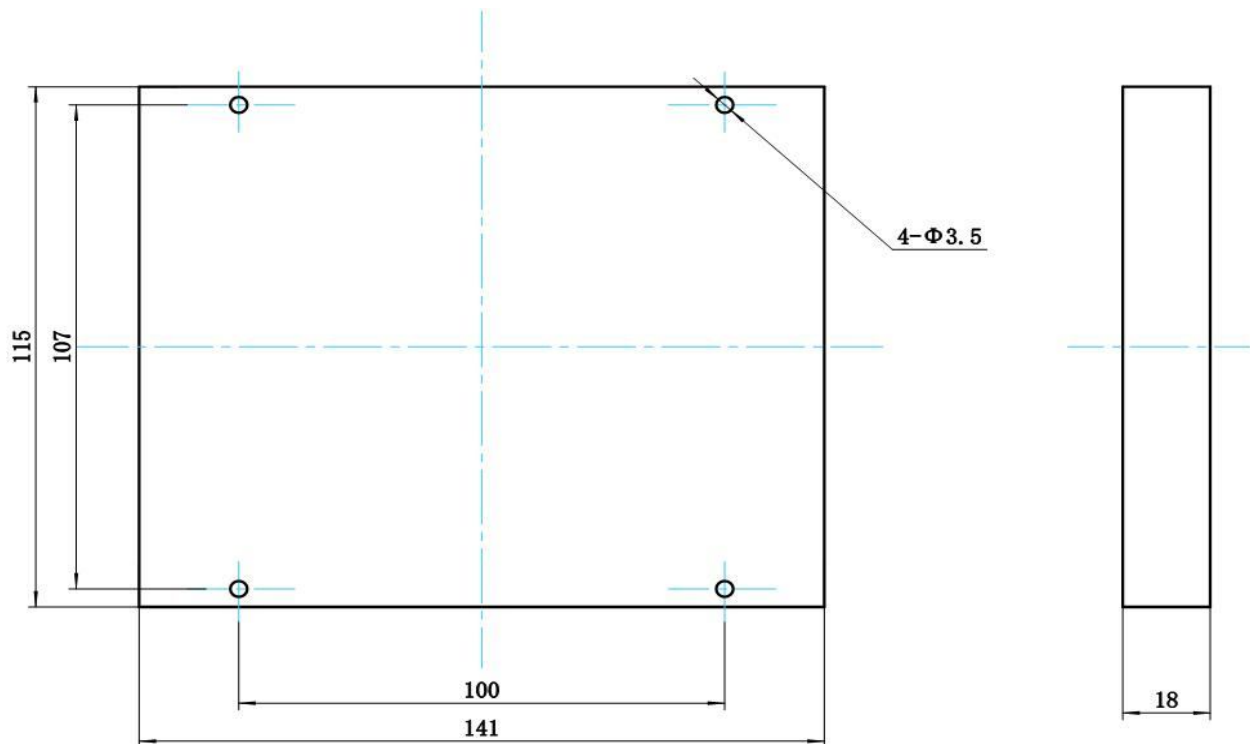
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4) 120 X80 X18mm



5) 141 X115 X18mm





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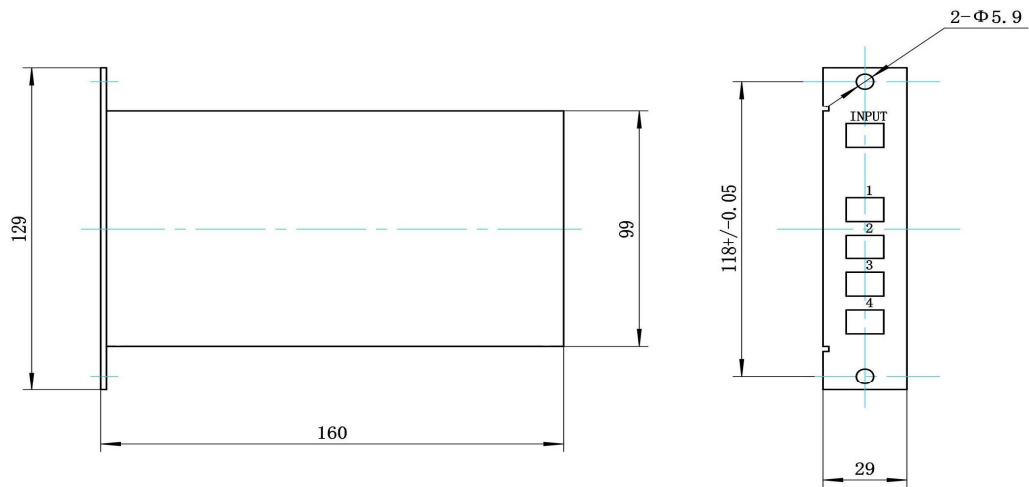
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LGX Box:



19' Rack Mount:

