



## Single Mode Double Window Coupler

### Test Data

P/N: Double Window-1×2-1314

S/N: 21071314920124

Fiber type: Corning SMF-28

Operating Wavelength: 1310/1490nm

Package Dimensions: 3×54mm

Fiber Length: 1m

Operating Temperature: -40~85°C

Connector: SC/UPC

Data tested:

| Items              | Output |       |        |      |
|--------------------|--------|-------|--------|------|
|                    | 1310nm |       | 1490nm |      |
|                    | orange | blue  | orange | blue |
| Coupling Ratio(%)  | 92     | 8     | 82     | 18   |
| Insertion Loss(dB) | 0.75   | 11.86 | 1.28   | 7.92 |
| PDL(dB)            | 0.04   | 0.04  | 0.03   | 0.05 |
| Excess Loss(dB)    | 0.03   |       | 0.06   |      |
| Directivity(dB)    | ≥55    |       | ≥55    |      |

Tested by: QC 03

Date: 2021-07-17



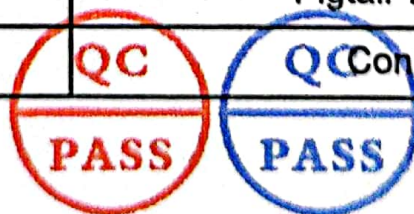
# Optical Coupler Data Sheet

Model: FBT 1x2-SC/UPC

|                        |                     |  |         |        |        |                  |
|------------------------|---------------------|--|---------|--------|--------|------------------|
| Operating Wavelength   | 1310/1490/1550±40nm | <div>In 1 (White) — <div>S/N:XXX</div> — Out1 (Blue)<br/>— Out2 (Orange) ↓</div> |         |        |        |                  |
| and Bandwidth:         |                     |  |         |        |        |                  |
| Fiber Type:            | SMF-28e G652D       |  |         |        |        |                  |
| Main Specifications    |                     | Required   | IL(dB ) |        |        | PDL(dB )         |
|                        |                     | Ratio(%)   | 1310nm  | 1490nm | 1550nm | 1310/1490/1550nm |
| In1 —→                 | Out1(Blue)          | 10   | 10.01   | 10.13  | 10.30  | 0.04             |
| In1 —→                 | Out2(Orange)        | 90   | 0.79    | 0.78   | 0.76   | 0.05             |
| Return Loss Min.(dB )  | 50                  | Operating Temperature(℃)   |         |        |        | -20 to +70       |
| Directivity Min .(dB ) | 55                  | Storage Temperature(℃)   |         |        |        | -40 to +85       |
| Pigtail Length(m)      | 1.0                 | Pigtail Type(mm)   |         |        |        | Φ0.9             |
| Package Dimension(mm)  | 60x3                | QC Connector   |         |        |        | SC/UPC           |

ALL datas were measured at center wavelength.

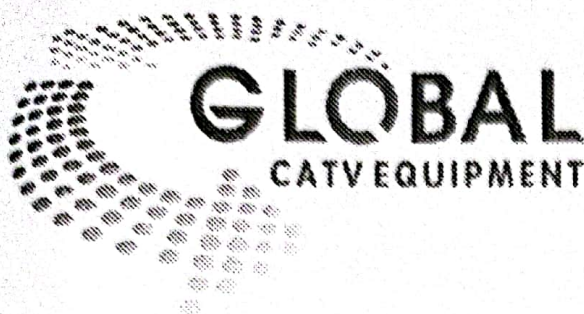
Checked by : 01



Date: 2022-6-15







## Single Mode Double Window Coupler

### Test Data

P/N: Triple Window-1×2-1314

S/N: 21071314850083

Fiber type: Corning SMF-28

Operating Wavelength: 1310/1490nm

Package Dimensions: 3×54mm

Fiber Length: 1m

Operating Temperature: -40~85°C

Connector: SC/UPC

Data tested:

| Items              | Output |      |        |      |
|--------------------|--------|------|--------|------|
|                    | 1310nm |      | 1490nm |      |
|                    | orange | blue | orange | blue |
| Coupling Ratio(%)  | 85     | 15   | 85     | 15   |
| Insertion Loss(dB) | 0.75   | 8.40 | 0.75   | 8.55 |
| PDL(dB)            | 0.03   | 0.02 | 0.03   | 0.06 |
| Excess Loss(dB)    | 0.04   |      | 0.05   |      |
| Directivity(dB)    | ≥55    |      | ≥55    |      |

Tested by: QC 03

Date: 2021-07-17

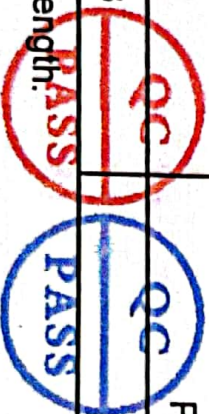


# Optical Coupler Data Sheet

Model: FBT 1x2-SC/UPC

|                        |  |                     |                        |  |              |            |                          |        |                  |            |
|------------------------|--|---------------------|------------------------|--|--------------|------------|--------------------------|--------|------------------|------------|
| Operating Wavelength   |  | 1310/1490/1550±40nm |                        | <div>In 1 (White) ————— <div>S/N:XXX</div> ————— Out1 (Blue)</div> <div>↓</div> <div>————— Out2 (Orange)</div> |              |            |                          |        |                  |            |
| and Bandwidth:         |  |                     |                        |  |              |            |                          |        |                  |            |
| Fiber Type:            |  | SMF-28e G652D       |                        |  |              |            |                          |        |                  |            |
| Main Specifications    |  |                     |                        |  |              |            |                          |        | Required         |            |
|                        |  |                     |                        | Ratio(%)   |              | 1310nm     | 1490nm                   | 1550nm | 1310/1490/1550nm |            |
|                        |  |                     |                        | In1 —————→   | Out1(Blue)   | 22         | 6.86                     | 6.82   | 6.76             | 0.11       |
|                        |  |                     |                        | In1 —————→   | Out2(Orange) | 78         | 1.38                     | 1.40   | 1.41             | 0.15       |
|                        |  |                     |                        | Return Loss Min.(dB )  |              | 50         | Operating Temperature(℃) |        |                  | -20 to +70 |
| Directivity Min. (dB ) |  | 55                  | Storage Temperature(℃) |  |              | -40 to +85 |                          |        |                  |            |
| Pigtail Length(m)      |  | 1.0                 | Pigtail Type(mm)       |  |              | Φ0.9       |                          |        |                  |            |
| Package Dimension(mm)  |  | 60x3                | Connector              |  |              | SC/UPC     |                          |        |                  |            |

ALL datas were measured at center wavelength:



Checked by : 04

Date: 2021-12-20

# Optical Coupler Data Sheet

Model: FBT 1x2-SC/UPC

|                       |  |                     |  |                        |  |              |  |        |        |  |                          |         |            |  |                  |  |      |  |
|-----------------------|--|---------------------|--|------------------------|--|--------------|--|--------|--------|--|--------------------------|---------|------------|--|------------------|--|------|--|
| Operating Wavelength  |  | 1310/1490/1550±40nm |  |                        |  |              | <div>In 1 (White) → <div>S/N:XXX</div> → Out1 (Blue)<br/>→ Out2 (Orange) ↓</div> |        |        |  |                          |         |            |  |                  |  |      |  |
| and Bandwidth:        |  |                     |  |                        |  |              |  |        |        |  |                          |         |            |  |                  |  |      |  |
| Fiber Type:           |  | G652D               |  |                        |  |              |  |        |        |  |                          |         |            |  |                  |  |      |  |
| Main Specifications   |  |                     |  |                        |  |              | Required   |        | IL(dB) |  |                          | PDL(dB) |            |  |                  |  |      |  |
|                       |  |                     |  |                        |  |              | Ratio(%)   |        | 1310nm |  | 1490nm                   |         | 1550nm     |  | 1310/1490/1550nm |  |      |  |
|                       |  |                     |  |                        |  |              | In1 → Out1 (Blue)  |        | 30     |  | 5.50                     |         | 5.69       |  | 5.62             |  | 0.10 |  |
|                       |  |                     |  |                        |  |              | In1 → Out2 (Orange)  |        | 70     |  | 1.86                     |         | 1.78       |  | 1.81             |  | 0.05 |  |
|                       |  |                     |  |                        |  |              | Return Loss Min. (dB)  |        | 50     |  | Operating Temperature(℃) |         | -20 to +70 |  |                  |  |      |  |
| Directivity Min. (dB) |  | 55                  |  | Storage Temperature(℃) |  | -40 to +85   |  |        |        |  |                          |         |            |  |                  |  |      |  |
| Pigtail Length(m)     |  | 1.0                 |  |                        |  |              |  |        |        |  |                          |         |            |  |                  |  |      |  |
| Package Dimension(mm) |  | 60x3                |  | QC                     |  | QC Connector |  | SC/UPC |        |  |                          |         |            |  |                  |  |      |  |

ALL datas were measured at center wavelength.

Checked by : 01

Date: 2022-6-18

**PASS** **PASS**



# Optical Coupler Data Sheet

Model: FBT 1x2-SC/UPC

|                        |                     |  |         |        |        |                  |               |
|------------------------|---------------------|--|---------|--------|--------|------------------|---------------|
| Operating Wavelength   | 1310/1490/1550±40nm | <div>In 1 (White) — <div>S/N:XXX</div> — Out1 (Blue)<br/>— Out2 (Orange) ↓</div> |         |        |        |                  |               |
| and Bandwidth:         |                     |  |         |        |        |                  |               |
| Fiber Type:            |                     |  |         |        |        |                  | SMF-28e G652D |
| Main Specifications    |                     | Required   | IL(dB ) |        |        | PDL(dB )         |               |
|                        |                     | Ratio(%)   | 1310nm  | 1490nm | 1550nm | 1310/1490/1550nm |               |
| In1                    | →                   | Out1(Blue)   | 4       | 14.27  | 15.16  | 14.27            | 0.14          |
| In1                    | →                   | Out2(Orange)   | 96      | 0.79   | 0.75   | 0.79             | 0.12          |
| Return Loss Min.(dB )  | 50                  | Operating Temperature(°C)  |         |        |        | -20 to +70       |               |
| Directivity Min .(dB ) | 55                  | Storage Temperature(°C)  |         |        |        | -40 to +85       |               |
| Pigtail Length(m)      | 1.0                 | Pigtail Type(mm)   |         |        |        | Φ0.9             |               |
| Package Dimension(mm)  | 60x3                | Connector  |         |        |        | SC/UPC           |               |

ALL datas were measured at center wavelength.

Checked by : 04

Date: 2022-11-11





# Optical Coupler Data Sheet

Model: FBT 1x2-SC/UPC

|                        |                     |  |         |        |        |                  |
|------------------------|---------------------|--|---------|--------|--------|------------------|
| Operating Wavelength   | 1310/1490/1550±40nm | <div> In 1 (White) — <span style="border: 1px solid black; padding: 2px;">S/N:XXX</span> — Out1 (Blue) ↓<br/> Out2 (Orange) </div> |         |        |        |                  |
| and Bandwidth:         |                     |  |         |        |        |                  |
| Fiber Type:            | G652D               |  |         |        |        |                  |
| Main Specifications    |                     | Required   | IL(dB ) |        |        | PDL(dB )         |
|                        |                     | Ratio(%)   | 1310nm  | 1490nm | 1550nm | 1310/1490/1550nm |
| In1 → Out1(Blue)       |                     | 50   | 3.68    | 3.64   | 3.60   | 0.08             |
| In1 → Out2(Orange)     |                     | 50   | 3.54    | 3.58   | 3.62   | 0.13             |
| Return Loss Min.(dB )  | 50                  | Operating Temperature(°C)  |         |        |        | -20 to +70       |
| Directivity Min .(dB ) | 55                  | Storage Temperature(°C)  |         |        |        | -40 to +85       |
| Pigtail Length(m)      | 1.0                 | Pigtail Type(mm)   |         |        |        | Φ0.9             |
| Package Dimension(mm)  | 60x3                | Connector  |         |        |        | SC/UPC           |

ALL datas were measured at center wavelength.

Checked by : 02

Date: 2022-11-7





## Single Mode Triple Window Coupler

### Test Data

P/N: Triple Window-1×2-131415

S/N: 2103131415520027

Fiber type: Corning SMF-28

Operating Wavelength: 1310/1490/1550nm

Package Dimensions: 3×54mm

Fiber Length: 1m

Operating Temperature: -40~85°C

Connector: SC/UPC

#### Data tested:

| Items              | Output |      |        |      |        |      |
|--------------------|--------|------|--------|------|--------|------|
|                    | 1310nm |      | 1490nm |      | 1550nm |      |
|                    | orange | blue | orange | blue | orange | blue |
| Coupling Ratio(%)  | 52     | 48   | 52     | 48   | 52     | 48   |
| Insertion Loss(dB) | 3.19   | 3.75 | 3.24   | 3.74 | 3.12   | 3.74 |
| PDL(dB)            | 0.03   | 0.03 | 0.06   | 0.03 | 0.06   | 0.04 |
| Excess Loss(dB)    | 0.05   |      | 0.05   |      | 0.04   |      |
| Directivity(dB)    | ≥55    |      | ≥55    |      | ≥55    |      |

Tested by: QC 03

Date: 2021-03-31