

FBT Coupler

Three Window Wideband Coupler

➔ Specifications (50/50)

| Parameter | Premium | A Grade |
|---------------------------------|--|--------------------------|
| Operating Wavelength Range | 1260-1360 nm, 1480-1550 nm, 1535-1570 nm | |
| Insertion Loss | ≤ 3.6 dB | ≤ 3.8 dB |
| Uniformity | ≤ 0.7 dB | ≤ 1.0 dB |
| Return Loss | ≥ 55 dB (1x2) ≥ 65 dB (2x2) | |
| PDL | ≤ 0.15 dB | ≤ 0.2 dB |
| TDL | ≤ 0.2 dB (-10°C ~ +75°C) ≤ 0.35 dB (-40°C ~ +85°C) | |
| Operating & Storage Temperature | - 40° C ~ + 85° C | |
| Package Dimensions | Light Duty (B) | 3.0mm (Φ) x 55.0mm (L) |
| | Medium Duty (L) | 3.0mm (Φ) x 60.0mm (L) |
| | Heavy Duty (K, R) | 100.0mm x 12.0mm x 8.0mm |

➔ Tap Coupler

| Coupling Ratio | Premium | A Grade |
|----------------|-------------|-------------|
| 40/60 | 4.7/2.7 dB | 5.0/2.5 dB |
| 30/70 | 6.0/1.9 dB | 6.4/2.2 dB |
| 20/80 | 7.9/1.2 dB | 8.5/1.4 dB |
| 10/90 | 11.3/0.6 dB | 12.7/0.8 dB |
| 5/95 | 15.0/0.4 dB | 16.0/0.5 dB |
| 1/99 | 23.5/0.3 dB | 25/0.4 dB |

➔ Tree Couplers

| *Port # | Max IL | | Uniformity | |
|---------|---------|---------|------------|---------|
| | Premium | A Grade | Premium | A Grade |
| 1 x 4 | 7.2 dB | 7.6 dB | 1.3 dB | 1.8 dB |
| 1 x 8 | 11.0 dB | 11.3 dB | 2.0 dB | 2.4 dB |
| 1 x 16 | 14.4 dB | 15.2 dB | 2.7 dB | 3.2 dB |
| 1 x 32 | 18.1 dB | 19.0 dB | 3.4 dB | 4.2 dB |



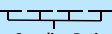



*Other port numbers upon request.

Note1: All values specified are without connectors.

Note2: Higher performance specifications are available upon request.

Note3: Fiber Type – Corning SMF-28e.

➔ Ordering Information

| | | | | | | |
|--------------|---|---|---|---|---|--|
| T W C |  |  |  |  |  |  |
| | Port Number | Grade | Coupling Ratio | Fiber Length | Pigtail Style | Connector |
| | 12: 1 x 2 14: 1 x 4 18: 1 x 8 16: 1 x 16 32: 1 x 32 | P: Premium A: A Grade | xy % : xy % | 1: 1 meter 2: 2 meter S: Special | (=Package style) B: bare fiber L: 900 μm loose tube K: 2mm cable R: 3mm cable | 0: None 1: FC/PC 2: FC/APC 3: SC/PC 4: SC/APC 5: FC/SPC 6: SC/SPC 7: LC/UPC 8: LC/SPC 9: Special A: FC/UPC B: SC/UPC C: ST |