



FBT Technology SM 1310 / 1550nm Dual Window Coupler

Part number: FBTC-xx2xxx-xxxxx-xx



Overview:

Ficer's single mode dual window coupler can be operated at both 1310nm and 1550nm wavelength level. Ficer applies advanced FBT technology which induces no additional water peak attenuation at 1383nm which displayed by traditional FBT technology; this advantage lead Ficer's coupler available across the Extended Band (1360nm~1460nm) and insensitive to the operating wavelength from 1270nm to 1600nm.

Applications:

- Low Insertion Loss
- Low PDL
- High Directivity
- High stability and reliability
- Various Coupling Ratio

Features:

- CATV
- Fiber Sensor
- Test Instruments
- FTTH, FTTB
- Local Area Network
- Optical communication systems

Specifications :

Parameter	Premium	Standard
Operating Wavelength	1310 / 1550±40nm	
Port Configuration	1×2 or 2×2	
Typical Excess Loss (dB)	0.1	0.15
Max. Insertion Loss (Without Connector)(dB)	3.6	3.8
Uniformity (50/50) (dB)	≤0.7	≤1.0
Polarization Dependent Loss* (dB)	≤0.10	≤0.15
Directivity (dB)	≥50	
Thermal Stability (dB)	≤0.25	
Operating Temperature (with Hytrel Cable)	-40°C to +85°C	
Storage Temperature (with Hytrel Cable)	-40°C to +85°C	
Package Dimensions (mm)	A (250μm) : 3.0(OD) x 54(L) B (0.9mm) : 3.0(OD) x 60(L) C (3.0 or 0.9mm) : 98(L) x 14(W) x 8.5(H)	

Note: All the data above does not include connectors

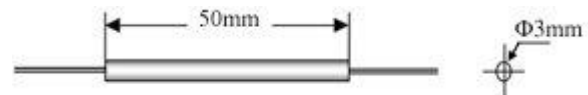


Coupling Ratio / Insertion Loss :

Coupling Ratio	Premium	Standard
50/50	3.6	3.8
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
5/95	14.0 / 0.45	17.5 / 0.5
1/99	21.0 / 0.2	21.5 / 0.3

Package Dimensions :

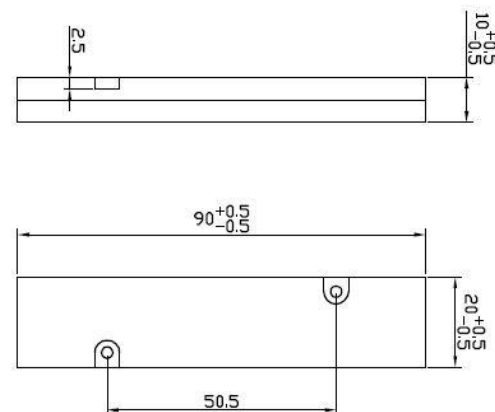
Package A:
3mm x 50mm stainless steel tube
with 250um bare fiber



Package B:
3mm x 60mm stainless steel tube
with 250um bare fiber
or 0.9mm loose tube



Package C:
90mm x 20mm x 10mm case
with 2.0, 3.0mm cable or 0.9mm loose tube





Ordering Information :

FBTC-2--

Fiber Type

S: SM 9/125 G652D
A: SM 9/125 G657A1
B: SM 9/125 G657A2(B2)
C: SM 9/125 G657B3

Grade

P: Premium
S Standard

Wavelength

2: 1310nm/1550nm

Port

1: 1×2
2: 2×2

Coupling Ratio

01: 01/99 30: 30/70
02: 02/98 40: 40/60
05: 05/95 50: 50/50
10: 10/90 XX: Others
20: 20/80

Package type

ABB10- Package A with Bare Fiber 1M
BBB10- Package B with Bare Fiber 1M
B9H10 Package B with 0.9mm Hytrel 1M
C2P10 Package C with 2.0mm PVC 1M
C3P10 Package C with 3.0mm PVC 1M
C9H10 Package C with 0.9mm Hytrel 1M
LEA1S- LGX Box for 1 slot in Beige color, Aluminum

Connector Type



S- SC type
F- FC type
T- ST type
L- LC type
U- MU
E- E2000
N- None



P- PC type
A- APC type
N- None