BLT Series

BLT is mainly used on the single mode transmission line and is a optical passive device combining the optical signal with two wavelength into a fiber.

Description

- High wavelength isolation, low PDL
- Stable environmental performance and good directivity
- Many configurations provided
- Wide wavelength range and good directivity
- Cable O.D.: φ0.25, φ0.9, φ3
- Applicable standard : YD/T1117

Applications:
- Optical fiber communication networks
- Test equipment, EDFA
- Optical CATV, FTTH
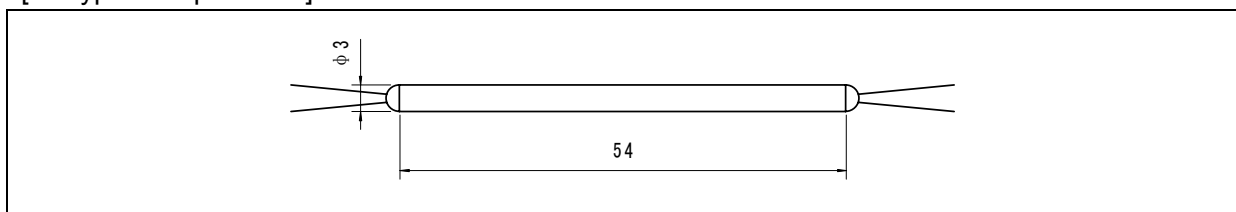- BLT networks, optical fiber sensors

Performance

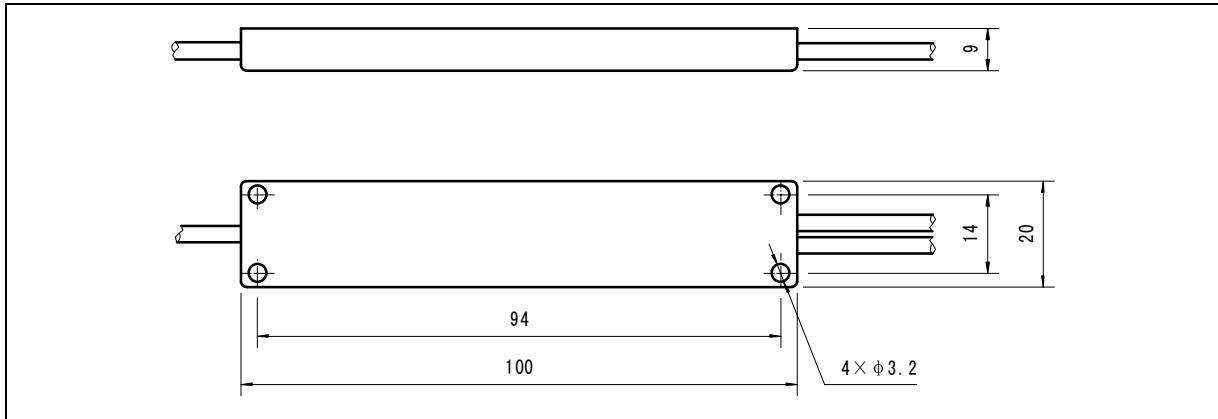| Item	BLT Type A	BLT Type B
Operating wavelength (nm)	1310/1550	1480/1550
Operating bandwidth (nm)	±15	±5
Wavelength isolation (dB)	≥18	≥15
Directivity（dB）	≥55	
Operating temperature（℃）	－40~＋85	
Max. optical power (mW)	300	

Outline dimension

BLT has three encapsulation structures: type A (A designates ABS plastic and A1 designates aluminum alloy), type B (B designates ABS plastic and B1 designates aluminum alloy), type D1 (tube encapsulation) and type F (adapting box encapsulation)
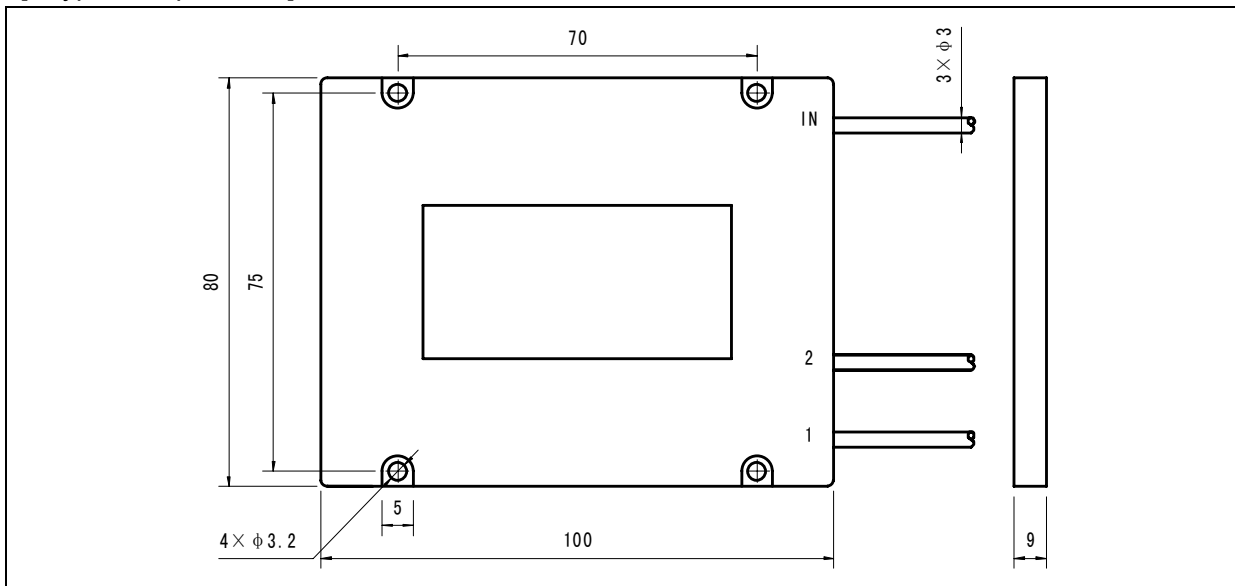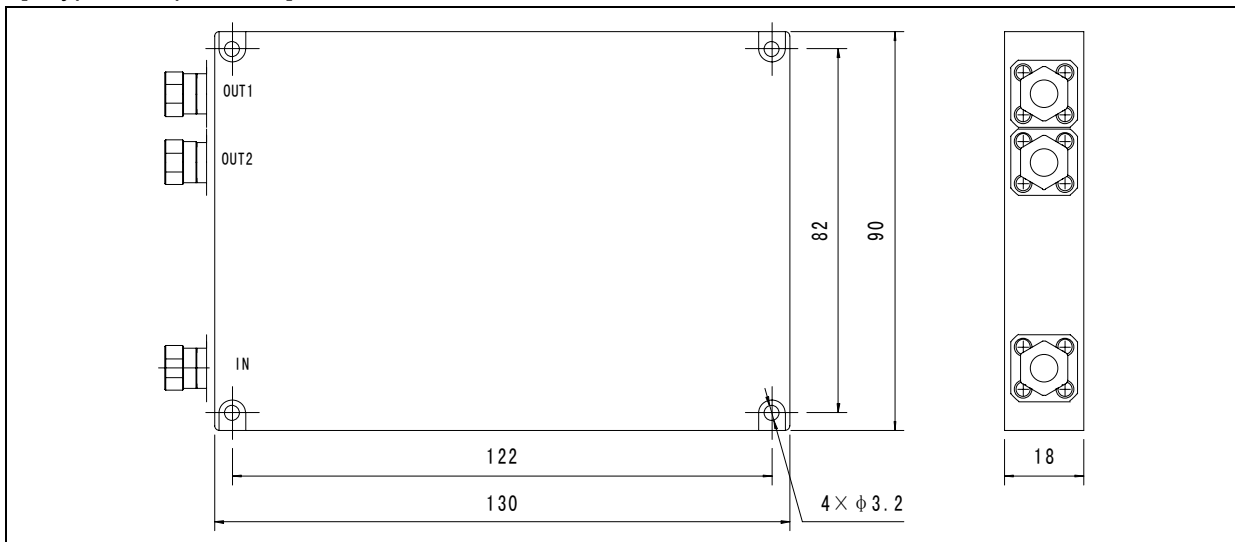
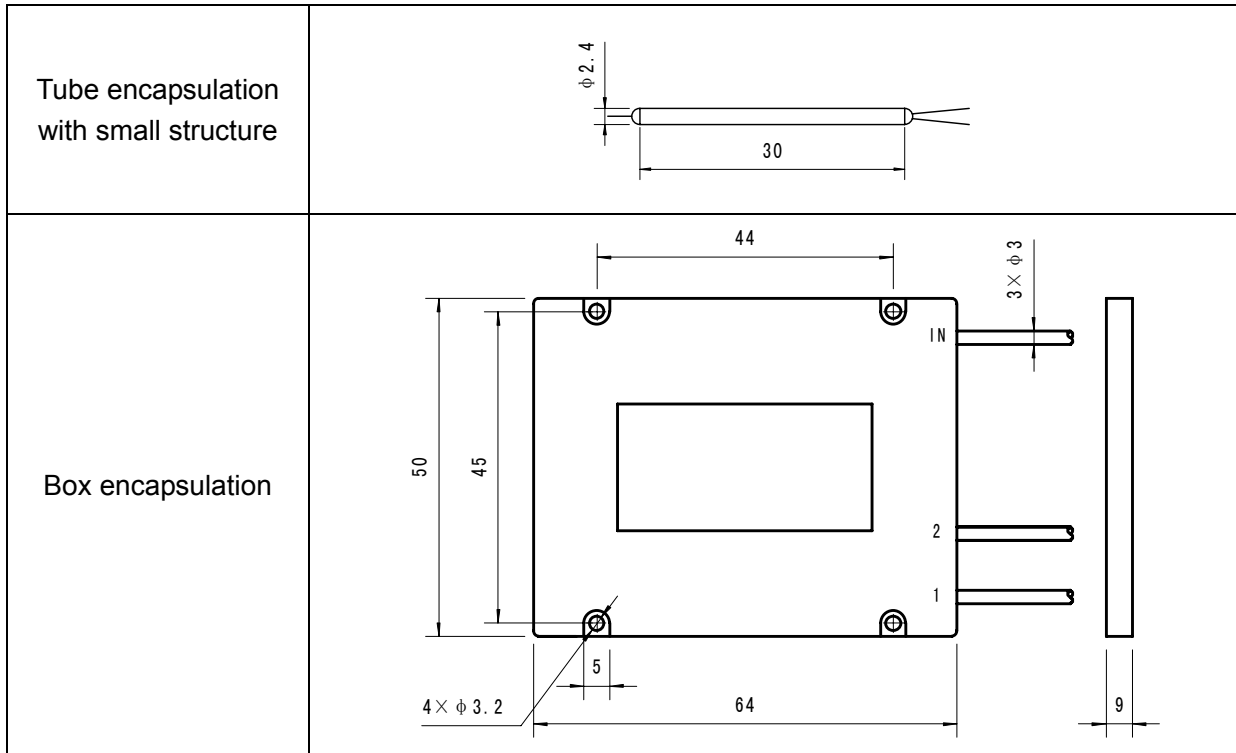[D1 type encapsulation]

[A type encapsulation]

9

14

20

94

100

4×φ3.2

[B type encapsulation]

70

3×φ3

IN

80

75

2

1

5

4×φ3.2

100

9

[F type encapsulation]

OUT1

OUT2

IN

82

90

122

130

4×φ3.2

18

2

Tube encapsulation with small structure	
Box encapsulation	

Ordering information

Basic series		BLT	13	15	- Φ0.9	2	/2	-FC	*2FC	A
Multiplexer wavelength 1	See table 1									
Multiplexer wavelength 2	See table 1									
Outer dia. of pigtail	0.9－fiber with Φ0.9 diameter; 2－Φ2 diameter; 3－Φ3 diameter（unit：mm） If the input and output are adapting type, it is blank.									
The length of pigtail on input end	The length of pigtail on input end (unit: mm). If the input is adapting type, it is blank.									
The length of pigtail on output end	The length of pigtail on output end (unit: mm). If the output is adapting type, it is blank.									
Optical fiber plug on input end	Quantity: Blank-1 Type: FC and SC, etc or in accordance with customer's requirement									
Optical fiber plug on output end	Quantity: Blank-1 Type: FC and SC, etc or in accordance with customer's requirement									
Encapsulation	See table 2 for encapsulation type and dimension									

Table 1 Operating wavelength（nm）

BLT	1315=1310/1550　　9815=980/1550　　1415=1480/1550

Table 2 Encapsulation type and dimension

Type	Dimension
Tube encapsulation	D1= d*l =Φ3*54（Pigtail is Φ0.25 bare fiber and Φ0.9 optical fiber）
Box encapsulation	A=100*20*9（ABS）
	A1=100*20*9（Aluminum alloy）
	B=100*80*9（ABS）
	B1=100*80*9（Aluminum alloy）
Adapting box encapsulation	F=130*90*18（ABS）
	F1=130*90*18（Aluminum alloy）

[Part number example]

BLT1315-Φ0.9*2/1-FC*2SC-A

Designation：1310/1550 BLT, input and output pigtail diameter is 0.9mm, input is FC plug, the input length is 2m, the output is two SC plugs and the output length is 1m. A type box encapsulation