

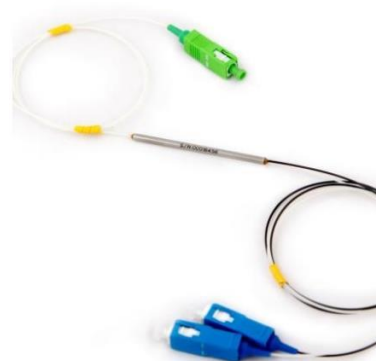
FBT Optical Coupler-SM

Features

- Low Insertion loss
- Various Coupling Ratio
- Compact Size

Applications

- Long-haul Telecommunications
- CATV Systems & Fiber Sensors
- Local Area Network



Optical Specifications:

Coupling Ratio	Insertion Loss (dB)	
	Tap	Signal
50/50	2.8-3.6	≤3.6
45/55	3.3-3.9	≤3.0
40/60	3.8-4.5	≤2.6
35/65	4.2-5.0	≤2.2
30/70	4.6-5.7	≤1.9
25/75	5.8-6.7	≤1.6
20/80	6.7-7.6	≤1.2
15/85	7.8-9.0	≤0.98
10/90	9.3-11.0	≤0.63
5/95	12.4-14.0	≤0.41
1/99	18.6-21.0	≤0.25
Excess Loss(Typ.) (dB)	0.10	
PDL(Max.) (dB)	0.15	
Operating Wavelength (nm)	1310±40, 1550±40,1310/1550±40,1310/1550/1490±40 or custom wavelength	
Directivity (dB)	≥55	
Port Configuration	1×2 or 2×2	

Note: All the data above does not include connectors.

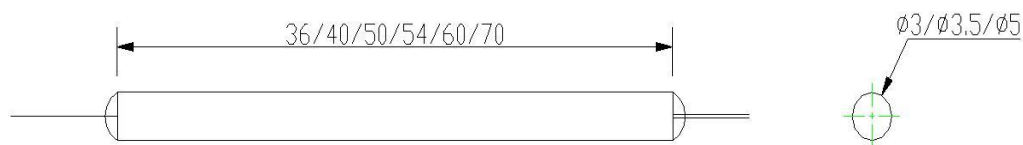
Parameter	Unit	Specification								
Operating Wavelength	nm	1310±40, 1550±40, 1490±10								
(1×N)(2×N)		N=3	N=4	N=5	N=6	N=8	N=10	N=16	N=24	N=32
Fiber Type		SMF-28e								
IL(MAX)	dB	5.6	7.1	8.3	9.2	10.6	11.75	14.4	15.6	17.4
Uniformity	dB	0.5	0.7	1.1	1.3	1.5	1.7	1.8	2	2.2
Return Loss	dB	≥55								
Directivity	dB	≥55								
PDL	dB	≤0.20	≤0.20	≤0.30	≤0.30	≤0.30	≤0.30	≤0.40	≤0.50	≤0.50

Note: All the data above does not include connectors.

Device Schematic Drawing (unit: mm):

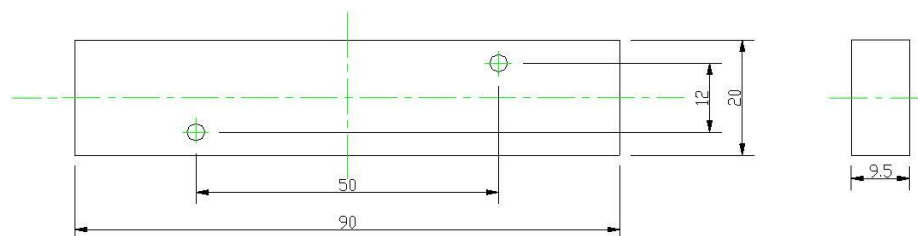
1. Stainless Steel Tube:

B1 /B2 (3×54) /**B3** (3.5×54) /**B4**(5×70) /**B5**(3×60) /**B6**(3×36) /**B7**(3×40):

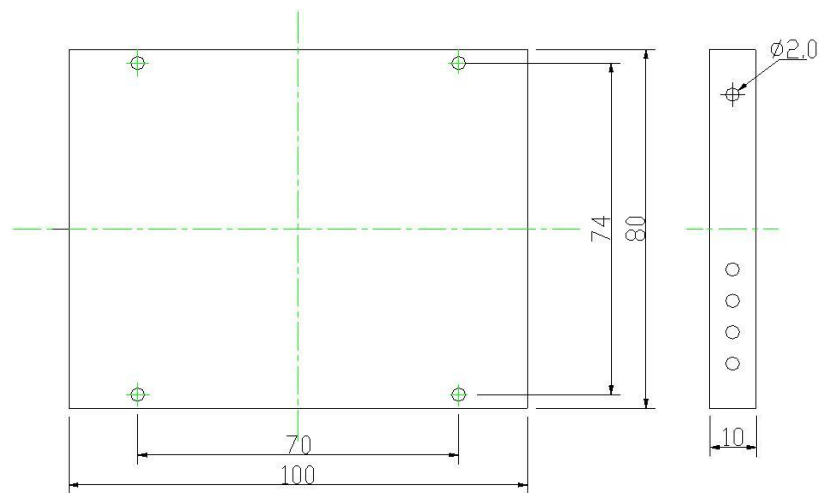


2. Plastic Box:

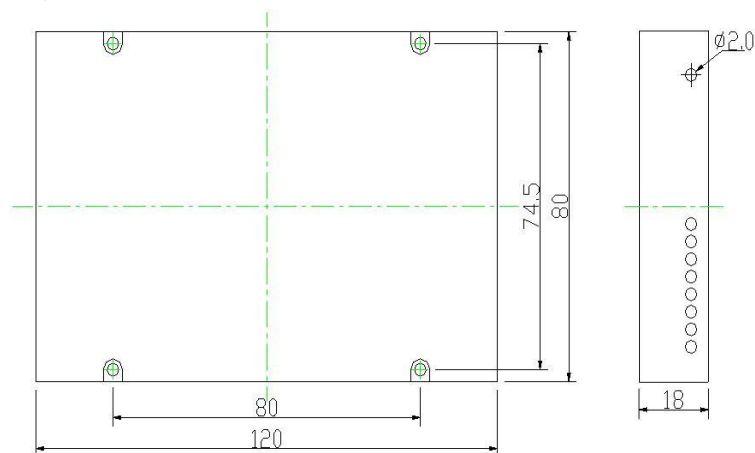
1) D (90 X20 X9.5)



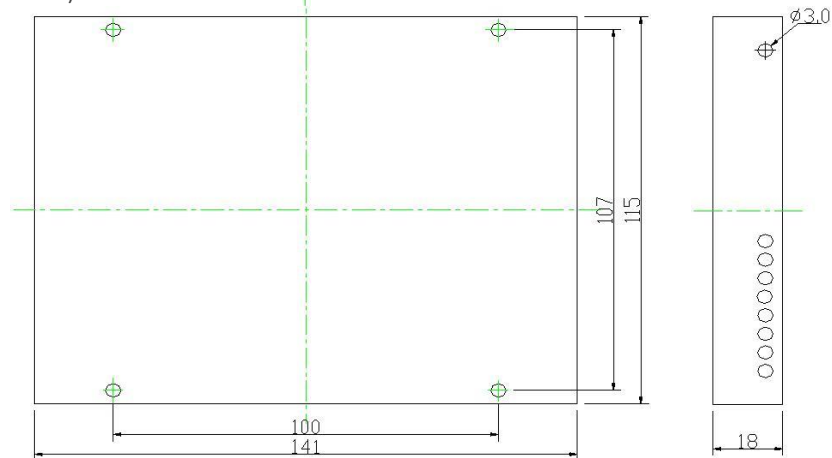
2) E (100 X80 X10)



3) K (120 X80 X18)

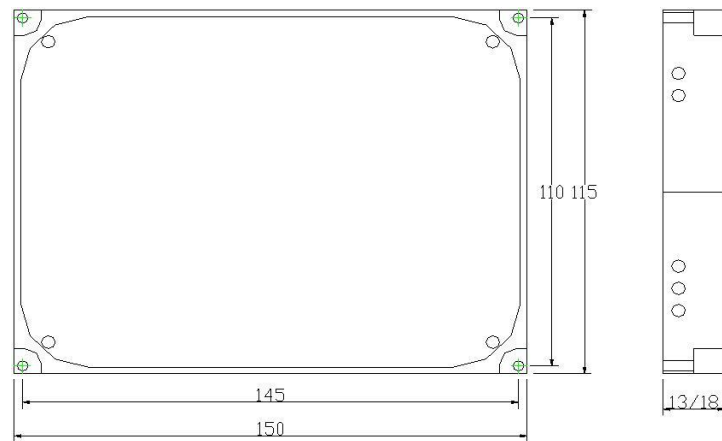


4) F
(141 X115 X18)

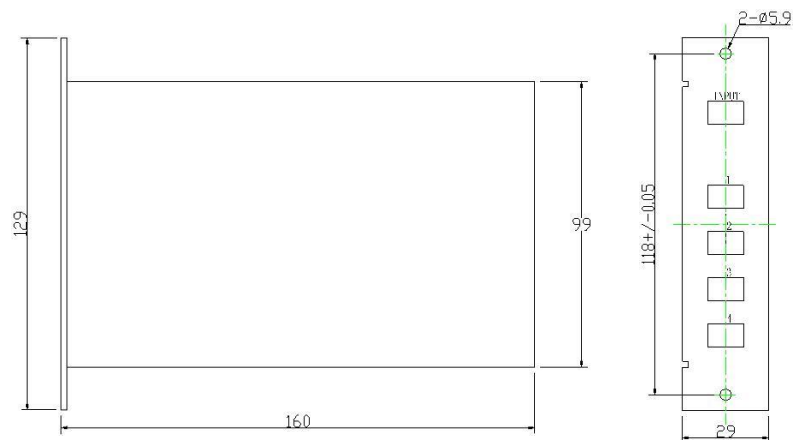


3. Metal box:

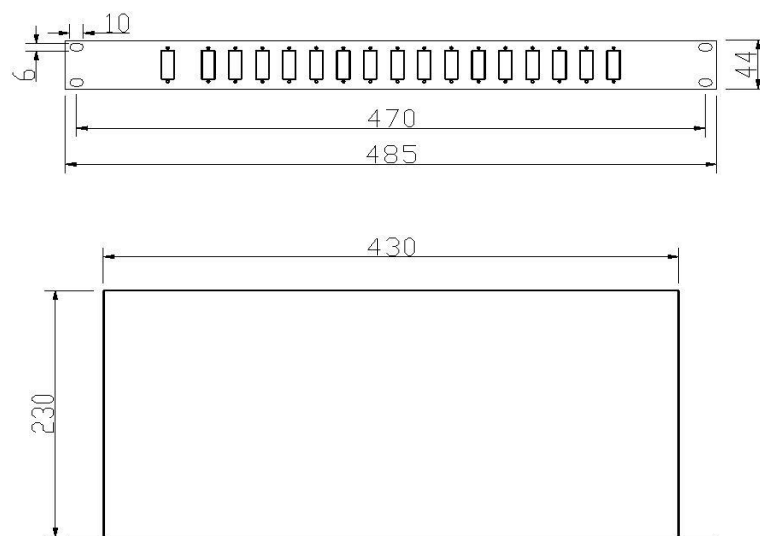
L (150X115X13) /H (150X115X18)



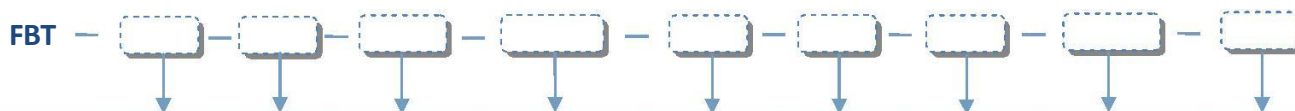
4. LGX Box:



5. 19' Rack Mount:



Order Information:



	Type	Port	Wavelength	Coupling Ratio	Fiber Type	Packagee	Pigtail Type	Pigtail Length	Connector
Type	S=Coupler W=WDM A=Online Attenuator								
Port	0101=1x1, 0102=1x2, ..., 0404=4x4, ..., 0132=1x32, 0232=2x32								
Wavelength	98=980, 13=1310, 14=1490, 15=1550, 1314=1310&1490, 1315=1310&&1550, 345=1310&1490&1550, 85=850, 9815=980&1550, 8513=850&1310								
Coupling Ratio / Attenuation value	01=1/99, 02=2/98,... 05=5/95,...10=10/90,...45=45/55,...00= 50/50 equal ratio, X=Others / 01=1dB, 02=2dB,...05=5dB...10=10dB..... X=Others								
Fiber Type	1=G652D, 2=G657A1, 3=OM3, 4=OM4, 5=50/125, 6=62.5/125 X=Others								
Package Dimension	B1, B2, ..., F, K								
Pigtail Type	B=250μm Bare fiber, L=900μm Loose tube, S=2.0mm, R=3.0mm, 0=Adapter								
Pigtail Length	0.5M=0.5meter, 1.M=1.0meter, 10M=10meter, 1M/2M=input 1meter/output 2meter, 0=Adapter, X=Others								
Connector Type	FU=FC/UPC, A=FC/APC, SU=SC/UPC, SA=SC/APC, ST=ST/UPC, LU=LC/UPC, LA=LC/APC, 00=None, MPO=MPO/UPC, MPA=MPO/APC, FU/FA= input FC/UPC / output FC/APC, X=Others								

Package Information:

Pigtail type	1x1	1x2	2x2	≤ 9 ports	≤ 18 ports	≤ 34 ports
Bare Fiber	/	B1/B6/B7	B1/B6/B7	/		
0.9mm loose tube	B1	B2	A5	/		
2.0mm jacket	B4/D	D	D	E	K	F
3.0mm jacket						
Rack Mount	U/G					

Package Dimension (mm):

Code	Dimension	Code	Dimension
B1	Φ3x50 Stainless Steel Tube	D	90x20x9.5 Plastic Box
B2	Φ3x54 Stainless Steel Tube	E	100x80x10 Plastic Box
B3	Φ3.5x54 Stainless Steel Tube	F	141x115x18 Plastic Box
B4	Φ5x70 Stainless Steel Tube	K	120x80x18 Plastic Box
B5	Φ3x60 Stainless Steel Tube	U	1U,2U,3U,4U 19" rack
B6	Φ3x35 Stainless Steel Tube	G	1G,2G,3G,4G LGX' Aluminium Box
B7	Φ3x40 Stainless Steel Tube	X	Customized Package
B9	Φ4x65 Stainless Steel Tube		

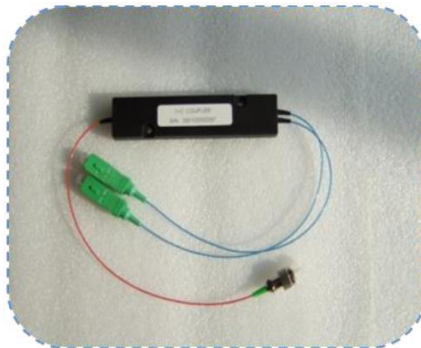
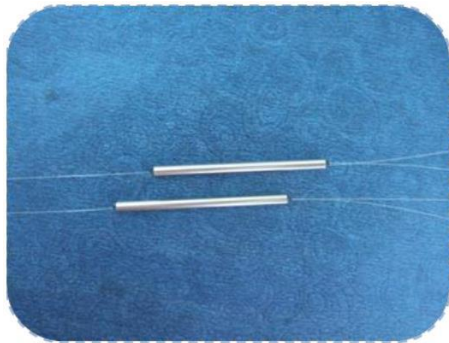
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Photos of products:



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