OPTICAL COUPLER

Specification:

Optical Splitter
Low insertion loss Wide pass band
High isolation
High stability and reliability
Epoxy free on optical patch

1x8 Single-window Optical Fiber Splitter
FCST adopts unique bandwidth extension techniques (asymmetric craft) for the tri-windows couplers to change the characteristic of the wavelength and make tri-windows at 1310/1490/1550nm wavelength meet the precision requirements of the coupling ratio. This unit specially applies for the low-cost solution of " 3 in 1 network" and tri-wavelength bi-direction transmission with a single fiber in FTTx network.

Features:
• Low PDL
• Low Excess Loss
• Good Directivity
• Good environmental Stability
• Tri-operating windows

Applications:
• Optical Fiber Communication Systems
• Optical Fiber CATV
• Passive Optical Network (PON)
• FTTx

Technical Specifications:

MODEL	Standard Tri-window Optical Couplers			
Central Wavelength/Bandwidth(nm)	1310±40, 1490±10, 1550±40			
Coupling Ratio (%)	1~50			
Typical Excess Loss(dB)	0.15			
Typical Insertion Loss(dB)	3.6			
PDL(dB)	0.10			
Directivity(dB)	55			
Temperature Coefficient(dB/°C)	0.002			
Operating Temperature(°C)	-40~+70			
Storage Temperature(°C)	-40~+85			
Max Operating Power(mw)	300			
Max Tensile Strength(N)	5			
Max Insertion Loss(dB)	1*4	1*8	1*16	1*32
	7.0	10	13.5	17.0
Insertion Loss Uniformity(dB)	1*4	1*8	1*16	1*32
	1.6	1.8	2.4	3.0
Industry Standard	Telcordia GR-1221-CORE			