TFF (Dual Fiber Fixed MUX DEMUX Card)

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Details

The dual fiber MUX / DEMUX board (TFF) launched by D Tech Trading is specially designed for DWDM network applications with multiple wavelengths. It can multiplex different wavelengths of optical onto one optical fiber or separate multiple optical channels multiplexed on the same optical fiber by wavelength. Based on thin film filter (TFF) technology, it works on ITU grid with 100GHz channel spacing. DWDM wavelength range is 1528nm to 1568nm, and ITU channel wavelength is optional. It has a series of advantages such as low insertion loss and high channel isolation.

Application case:

It is applicable to 4-channel and 8-channel DWDM optical signal MUX and DEMUX in dual fiber transmission

Product Specification:

Specification	4 channel	8 channel
Function	Support Mux&Deux of 4 DWDM optical signals	Support Mux&Deux of 8 DWDM optical signals

Specification	4 channel	8 channel
Channel number	4?@100 GHz (191.4THz~196.1THz, board model as table 1)	8?@100 GHz (191.4THz~196.1THz, board model as table 2)
Insertion loss	?2 dB	?3 dB
3dB spectral width	>75GHz	>75GHz
Adjacent channels isolation	>25dB	>25dB
Non-adjacent channels isolation	>35dB	>35dB
Slot number	1 slot	
Power monitoring	Support optical power monitoring of mux port (SIG)	
Indicator light	Support optical power indicator light of mux port (SIG)	

Specification	4 channel	8 channel
Extended function	Support extended cascading, and use EXP port for docking during cascading	

Table 1: dual fiber 4-channel fixed mux demux board

Card model	Port Range	Center Frequency (THz)
TFF5659	A56/D56~A59/D59	195.60~195.90
TFF5255	A52/D52~A55/D55	195.20~195.50
TFF4750	A47/D47~A50/D50	194.70~195.00
TFF4346	A43/D43~A46/D46	194.30~194.60
TFF3841	A38/D38~A41/D41	193.80~194.10
TFF3437	A34/D34~A37/D37	193.40~193.70

Card model	Port Range	Center Frequency (THz)
TFF2932	A29/D29~A32/D32	192.90~193.20
TFF2528	A25/D25~A28/D28	192.50~192.80
TFF2023	A20/D20~A23/D23	192.00~192.30
TFF1619	A16/D16~A19/D19	191.60~191.90

Table 2: dual fiber 8-channel fixed mux demux board

Card model	Port Range	Center Frequency (THz)
TFF5360	A53/D53~A60/D60	195.30~196.00
TFF4552	A45/D45~A52/D52	194.50~195.20
TFF3744	A37/D37~A44/D44	193.70~194.40

Card model	Port Range	Center Frequency (THz)
TFF2936	A29/D29~A36/D36	192.90~193.60
TFF2128	A21/D21~A28/D28	192.10~192.80

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