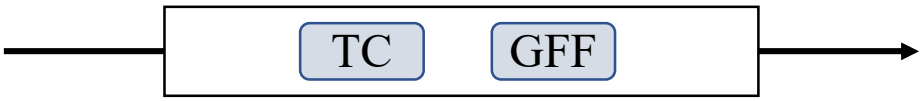
Temperature Compensated Gain Flattening Filter
--TCGFF

Key Features

- ✧ Passive component
- ✧ Auto temperature dependent gain compensation
- ✧ Very small size
- ✧ Cost saving

- ✧ Based on our unique passive EDFA temperature dependent gain compensation technique, the Temperature Compensator (TC) is a passive component designed to conquer the issue of EDFA temperature dependency so that the EDF heater, temperature control circuit and insolation box in conventional EDFA can be fully eliminated.
- ✧ TCGFF is a 2in1 hybrid passive component including temperature compensator and gain flattening filter

Function Diagram



General Specification

Parameter	Specification	Unit
Wavelength Range	1528-1568 1565-1617	nm
Max Insertion Loss*	0.5	dB
Max Temperature Dependent Gain**	0.3	dB
GFF error function (P-P)	0.5	dB
Operating Temperature	-10-70	ºC
Storage Temperature	-40-85	ºC
Operating Humidity	5-95	%RH
Polarization Mode Dispersion (max)	0.05	ps
Polarization Dependent Loss (max)	0.1	dB
Dimension	3x4x24	mm

***at the temperature the GFF is designed**
****gain curve at any temperature minus gain curve at the temperature the GFF is designed**

Example of EDFA gain spectrum with TDGCS