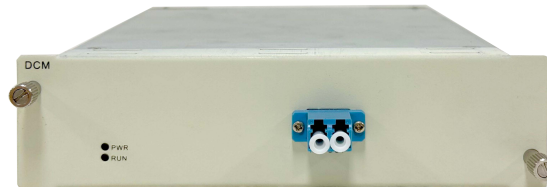


ROC3-DCM

Dispersion Compensation Modules



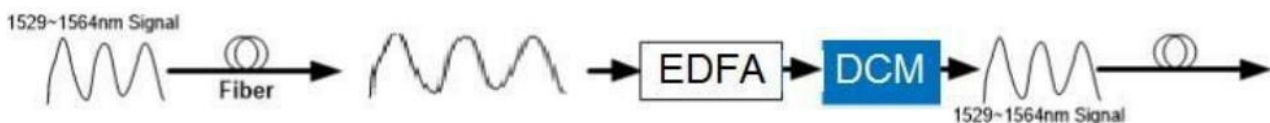
The ROC3-DCM are perfect complements for EDFA systems. When signal is traveling over long segments of physical fiber, especially when amplification systems are used, signal quality is affected by dispersion. To compensate the G652 long haul dispersion effects occurring in DWDM communication systems, Dispersion Compensation Modules (DCM) must be used. ROC3-DCM cards occupy 2 slots in the ROC3 platform chassis and have various compensation values depending on the amount of dispersion requiring compensation.

Features

- Modular design, Compact size, Hot Pluggable cards
- Wide wavelength range dispersion compensation, efficient compensation for DWDM systems
- Low insertion loss, low polarization mode dispersion
- All parameters are compliant with Telcordia GR-2854-CORE certifications
- Telcordia GR-1221-CORE reliability certifications

Applications

- Suitable for G.652 optical fiber long-haul communication systems
- DWDM transmission systems, SDH transport systems
- Dispersion adjustment



DCM application in DWDM transport system

Specifications

Parameters	Unit	Values			
Dimension	mm	160×200×43 WxDxH			
Wavelength Range	nm	1525~1565			
Optical Power	dBm	≤ 23			
Brillouin Dispersion Domain Value	dBm	≥ 6			
Nonlinear Coefficient	W-1	≤ 1.4*10 ⁹			
Effective Area	um ²	≥ 20			
Distance Up TO	km	≤ 80			
Dispersion Compensation Value	km	20	40	60	80
	Ps/nm	-340±20	-680±20	-1000±30	-1340±40
Relative Dispersion Slope	nm-1	0.0036±20%			
Insertion Loss	dB	≤ 3.2	≤ 4.5	≤ 6.0	≤ 7.7
Polarization Mode Dispersion	ps	≤ 0.3	≤ 0.4	≤ 0.5	≤ 0.6
Connector Type		LC/PC			
Operating Temperature	°C	-5 ~ +55			
Storage Temperature	°C	-20 ~ +70			
Relative Humidity		5% ~ 95% (non-condensing)			

Ordering Information: ROC3-DCMXX

Part Number (XX)	Description
ROC3-DCM20 ROC3-DCM40 ROC3-DCM60 ROC3-DCM80	20Km dispersion compensation module 40Km dispersion compensation module 60Km dispersion compensation module 80Km dispersion compensation module (all modules have LC/UPC connectors)