

|                    |                       |
|--------------------|-----------------------|
| <b>Part Number</b> | 4+1 CH CWDM MUX/DEMUX |
| <b>Label</b>       | 133-1052              |

### Optical Requirements

|   |                             |                              |  |
|---|-----------------------------|------------------------------|--|
| Channel Number                          |                             | 4 + 1                        |  |
| Central wavelength                      | CWDM                        | 1270/1290/1310/1330 + WB1550 |  |
| Channel Spacing                         |                             | 20nm                         |  |
| Passband                                | Channel Ports (Min.)        | ITU +/-6.5 nm                |  |
|   | WB1550 (Min.)               | 1460-1620 nm                 |  |
| Insertion Loss (max., incl. connectors) | CWDM                        | 2.0 dB                       |  |
|   | WB1550 port                 | 1.1 dB                       |  |
| Pass Band ripple                        | (Max.)                      | 0.5 dB                       |  |
| Isolation                               | Adjacent channel (Min.)     | 30 dB                        |  |
|   | Non-adjacent channel (Min.) | 40 dB                        |  |
|   | WB1550 channel (Min.)       | 30 dB                        |  |
| Return Loss (incl.connectors)           | all Ports (Min.)            | 45 dB                        |  |
| Directivity                             | Channel Ports (Min.)        | 50 dB                        |  |
| Polarization Dependent Loss             | (Max.)                      | 0.2 dB                       |  |
| Polarization Mode Dispersion            | (Max.)                      | 0.2 ps                       |  |
| Maximum Optical Power                   | (Max.)                      | 300 mW                       |  |

### Environmental Requirements

|                       |                            |
|-----------------------|----------------------------|
| Operating Temperature | -40°C to +85°C             |
| Storage Temperature   | -40°C to +85°C             |
| Reliability           | Telcordia GR-1209, GR-1221 |

### Mechanical Requirements

|                  |                      |                    |
|------------------|----------------------|--------------------|
| Package Size     | 19" 1U rackmount     |                    |
| Fiber Type       | SMF-28 or equivalent | ∅ 9 / 125 / 250 μm |
| Fiber Proof Test | > 100 kpsi           |                    |
| Fiber Jacket     | 900μm loose tube     |                    |
| Pigtail Length   | 350+/- 50mm          |                    |
| Connector Type   | LC/PC for all ports  |                    |

|  |                  |        |                        |
|--|------------------|--------|------------------------|
| COM  | <b>1460-1620</b> | WB1550 |                        |
|  | <b>1330</b>      |        | 1330                   |
| 4+1-CH CWDM Rackmount<br>PN: 133-1052<br>SN: xxxxxxxx001               | <b>1310</b>      |        | 1310                   |
|  | <b>1290</b>      |        | 1290                   |
| 900um loose tube with LC/PC connectors,<br>packed in 19" 1U rackmount. | <b>1270</b>      |        | 1270                   |
|  |                  |        | IL<2.0 with connectors |



|     |                  |        |                        |
|-----|------------------|--------|------------------------|
| COM | <b>1460-1620</b> | WB1550 |                        |
|     | <b>1270</b>      |        | 1270                   |
|     | <b>1290</b>      |        | 1290                   |
|     | <b>1310</b>      |        | 1310                   |
|     | <b>1330</b>      |        | 1330                   |
|     |                  |        | IL<2.0 with connectors |