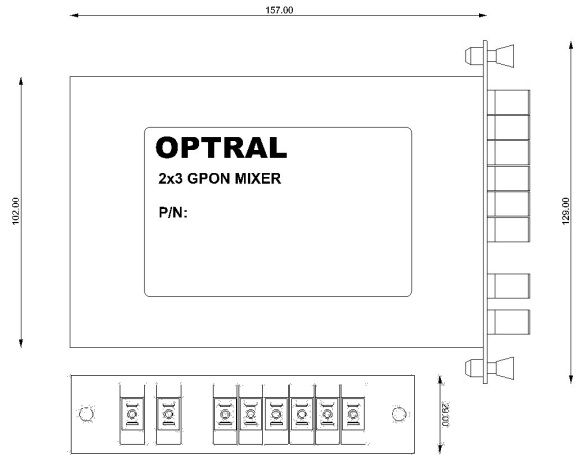
# GPON OPTICAL MIXER

SINGLE GPON MIXER

DOUBLE GPON MIXER




GPON MIXER BOX

The OPTRAL GPON MIXER allows simultaneous operation of different GPON technologies. The GPON MIXER is a fully passive equipment that can optically combine GPON, XG-PON1 and NG-PON2 on a single fibre. The OPTRAL GPON MIXER is available in a Single Channel and Double Channel.

## FEATURES

- Singlemode Optical Fiber
- Single Input Line / Double Input Line
- Rack Cards 3U 1 Slot
- Optical connectors: SC

## OPERATION / SIZE / TEMPERATURE

- Temperature: 0º to +70ºC
- Humidity: 10% ÷ 90% (without condensation)
- Rack Card = 3U 1 Slot (157 x 129 x 29 mm)

## COMPATIBILITY

- Standard ITU-T G.984 / G.987 / G.988 / G.989

## MAIN SPECIFICATIONS

| DESCRIPTION | | SPECIFICATION |
|---|---|---|
| CHANNELS | GPON | 1290 ~ 1330 nm / 1480 ~ 1500 nm |
| | XG-PON1 | 1260 ~ 1280 nm / 1575 ~ 1580 nm |
| | NG-PON2 | 1524 ~ 1544 nm / 1596 ~ 1603 nm |
| INSERTION LOSS (per chanel) (1) | | < 1.5 dB |
| ISOLATION (between channels) (2) | | > 20 dB |
| RETURN LOSS (per channel) | | > 45 dB |
| DIRECTIVITY (per channel) | | > 50 dB |

(1) Insertion Loss per channel depends on the connector type and the internal optical filters used.
(2) Isolation between channel depends of the optical filters used. Other values upon request.



All specifications are subject to change. Consult OPTRAL for the latest design specifications