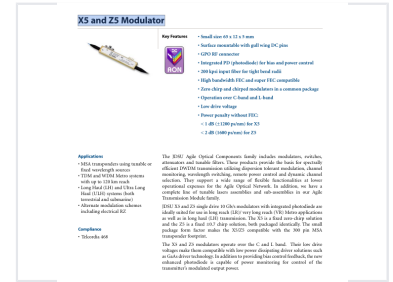


10 Gb/s Single Drive Modulator

This single drive modulator is ideally suited for use in long reach metro applications as well as long haul transmission. The small form factor makes it compatible with the 300 pin MSA transponder footprint.



Overview

High-Performance 10 Gb/s Single Drive Modulator

This 10 Gb/s single drive modulator is engineered for demanding long-reach and ultra-long-haul transmission applications. Featuring an integrated photodiode for precise bias and power control, it supports both C-band and L-band operations. Designed with a compact form factor, it is fully compatible with 300-pin MSA transponder footprints, making it an ideal choice for spectrally efficient DWDM transmission systems.

Physical Characteristics

Dimensions	65 x 12 x 5 mm
Mounting Type	Surface mountable with gull wing DC pins
RF Connector	GPO
Input Fiber	200 kpsi (for tight bend radii)

Performance Metrics

Power Penalty (X5)

1 dB

Power Penalty

Power Penalty (Z5)

2 dB

Power Penalty

Data Rate	10 Gb/s
Operating Bands	C-band, L-band

Technical Features

Available Variants

Model	Chirp Characteristics
X5	Fixed zero-chirp
Z5	Fixed ± 0.7 chirp

Compatibility

- High bandwidth FEC
- Super FEC
- 300 pin MSA transponder footprint

Compliance

Standards Compliance

Telcordia 468

Applications

Typical Applications

- MSA transponders (tunable or fixed wavelength)
- TDM and WDM Metro systems (up to 120 km)
- Long Haul (LH) and Ultra Long Haul (ULH) systems
- Terrestrial and submarine networks
- Electrical RZ modulation schemes