

5V / 155 Mbps InGaAs PIN-TIA Receiver

PT-3500 Series

InGaAs PIN-TIA WITH RECEPTACLE

FEATURES

- 2 InGaAs/InP PIN Photodiode with AGC transimpedance amplifier
- 2 Differential ended output
- 2 Single +5V operation
- 2 - 40 ~ +85 °C operation temperature

DESCRIPTION

PT-3500 series are designed as optical signal receivers with AGC transimpedance amplifier. Their wide dynamic ranges, differential outputs are suited for telecommunications, especially SONET OC-3 / SDH STM-1, Fast Ethernet, and Fiber Channel.

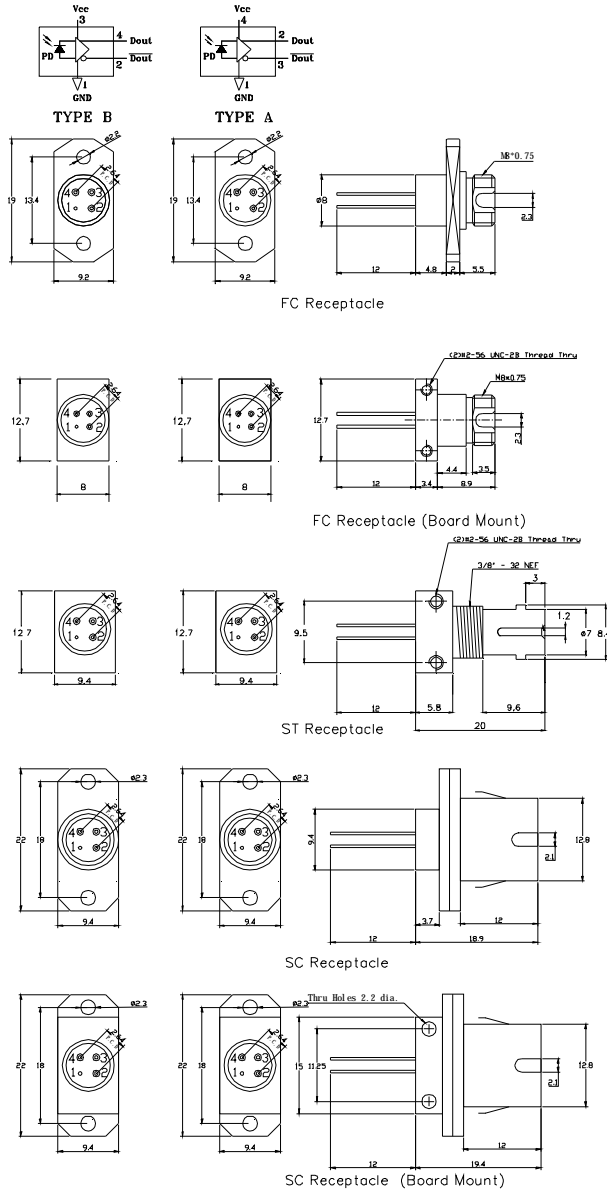
| AC / ELECTRICAL AND OPTICAL CHARACTERISTICS (T _c =25°C) | | | | | | |
|--|---|--------------------------------|------|------|------|------|
| Symbol | Parameter | Test Conditions | Min. | Typ. | Max. | Unit |
| | Detection Range | | 1100 | 1310 | 1650 | nm |
| G | Gain@10Mbs Differential | λ =1300nm | 0.17 | - | 220 | V/mW |
| BW | Bandwidth | P _f =1 μW | 120 | 140 | | MHz |
| Psat | Saturation Power | λ =1300nm | -3 | 0 | - | dBm |
| Sens | Sensitivity | BER=10 ⁻¹⁰ @155Mbps | - | -38 | -36 | dBm |
| Rout | Output Resistance | | - | 50 | 65 | ohm |
| | Operation Speed | | | 155 | 170 | Mbps |

| DC / ELECTRICAL CHARACTERISTICS (T _c =25°C) | | | | | |
|--|--------------------------|------|------|------|------|
| Symbol | Parameter | Min. | Typ. | Max. | Unit |
| V _{CC} | Power Supply | 4.5 | 5 | 5.5 | V |
| I _{CC} | Supply Current (no load) | - | - | 35 | mA |

| ABSOLUTE MAXIMUM RATING (T _c =25 °C) | | | |
|---|-----------------------|---------|------|
| Symbol | Parameter | Value | Unit |
| V | Voltage | 6 | V |
| T _{opr} | Operating Temperature | -40~+85 | °C |
| T _{stg} | Storage Temperature | -40~+85 | °C |

MECHANICAL DIMENSION (mm) and PIN ASSIGNMENT

Note: Specifications subject to change without notice.



ORDER INFORMATION

Part No.: P T - 3 5 0 -

| Code | Voltage |
|------|---------|
| 0 | +5V |
| 3 | +3.3V |

| Code | PIN Assignment |
|-------|----------------|
| Blank | Type A |
| B | Type B |

| Code | Connector Type |
|------|---------------------|
| F | FC/PC |
| FB | FC/PC (Board Mount) |
| T | ST/PC |
| S | SC/PC |
| SB | SC/PC (Board Mount) |
