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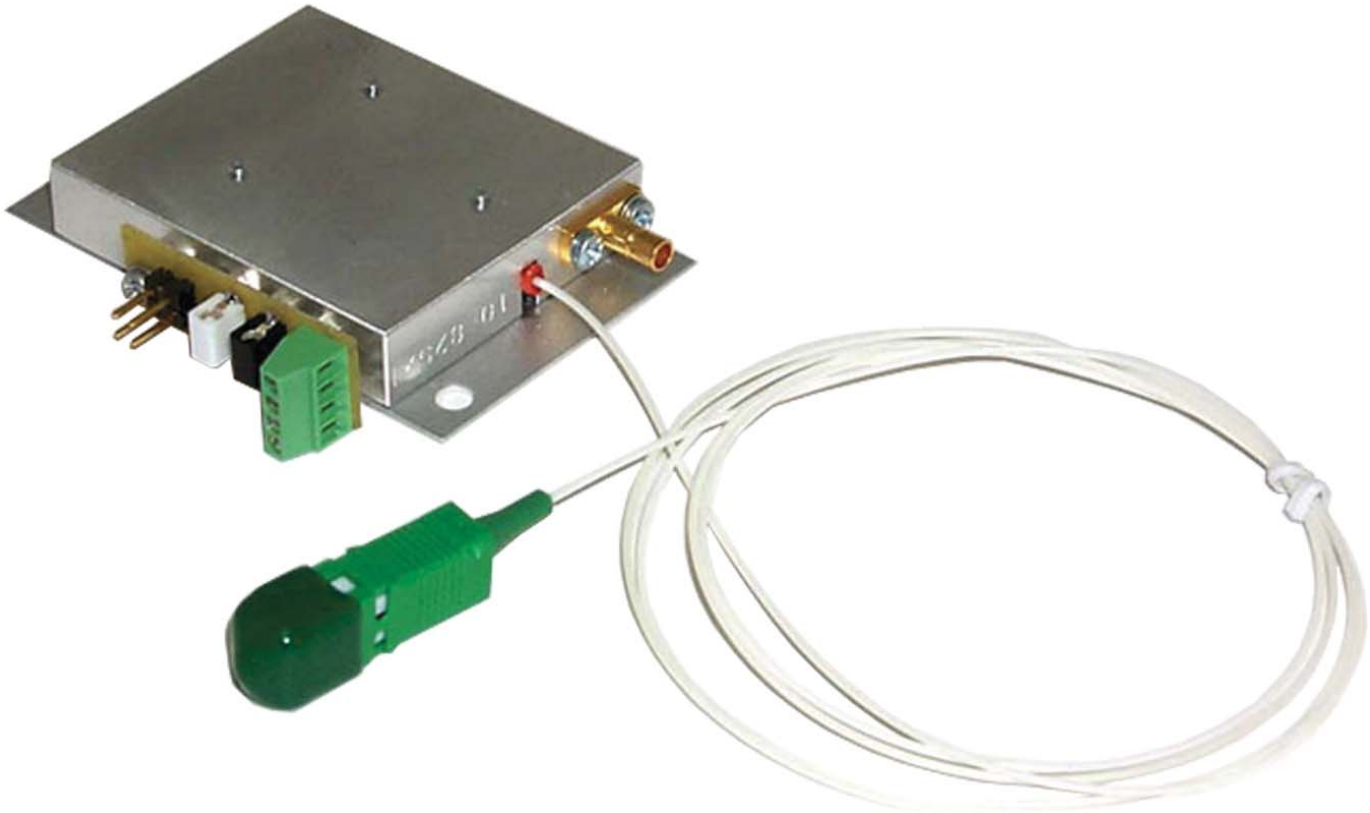
OTOR-870

LOW LEVEL OPTICAL RECEIVER

Features / Benefits

The **OLSON TECHNOLOGY INC. OTOR-870** Low Level Optical Receiver is optimized for those applications that require the ultimate in performance at low optical input levels. This receiver is designed for those “last mile” applications where optical power is at a premium.

The unit operates from a single 5.2V supply and consumes less than 2.5 watts. Its push pull design from the detector to the output insures excellent CSO/CTB performance with full channel loading. External optical power monitor test points are available as is a power monitor connection to the power / interface connector. This feature in conjunction with the shut down feature allows for this unit to be utilized in redundant switching applications.



Optical Power Input Range.....-6dBm to +1dBm
1310 / 1550 N meter

RF Band Width.....48MHz to 870MHz

Optical to RF Conversion EFF.....…..... 3.2% OMI Transmitter @ -3dBm optical

Output Return Loss.....……..... >15dB – 48MHz to 870MHz

*Typical C/N @-6dBm Optical.....……..... >50dB

D.C. Power Requirements..... 5.2 volts @ .4 amp

CSO/CTB @ 0dBm Optical.....>65dB (77 channel loading to 550MHz
+ Noise loading at –6dB to 870MHz)

Optical Input Connector.....SC / APC

RF Output Connector ..... 75 Ω SMB

Amplifier Shut-off.....……..... Pull down to ground on external terminal

Optical Power Monitor..... 1V/mW – Stays operational in shut down mode
External T.P. and 1310/1550 shunt

Size.....……... 2” X 2” plus connector and mounting tabs

Block Diagram
Low Level Optical Receiver