

# Optic Node (Outdoor)

ONH / ONM / ON 632



Sharp Vision's Optical nodes are ideal for those situations where reliability and flexibility will be designed into the CATV network by using architecture with fiber running deep into the network. Each model has power-pass capability. The High Quality Hybrid Technology has been used for input as well as output stage to obtain high input sensitivity and high output level.

## Features:

- Optical Wavelength : 1290 ~ 1600nm
- RF Freq. Range : 40 ~ 860MHz
- Good Flatness :  $\pm 0.75$ dB
- O/P Level Variation : 0 ~ 20 dB
- Plug-In Fixed Slope : 0 / 6 / 9 / 12 dB
- SMPS Power Supply : 30 ~ 90VAC
- Plug-In Variable Slope : 0 ~ 20 dB
- High Voltage Surge Protection
- Excellent CSO/CTB
- High CNR



## Models:

### ONH

- Power Doubler at O/P Stage
- Very High Sensitivity of -9dBm
- RF O/P 115dBuV at 0dBm Optic I/P
- Photo Diode at Optic I/P Stage

### ONM

- Power Doubler at O/P Stage
- High Sensitivity of -7dBm
- RF O/P 112dBuV at 0dBm Optic I/P

### ON632

- Double Hybrid Node
- Good Sensitivity of -6dBm
- RF O/P 105dBuV at 0dBm Optic I/P



**NODE POWER SUPPLY**  
to be used for operation of  
Outdoor Optic Nodes at  
220VAC, 50Hz



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# Comparison between Other Brand Nodes & Sharp Vision Nodes



Other Brand Nodes	Sharp Vision Nodes
<p>1. High Noise – As they do not incorporate any low noise amplifier immediately next to Pin Detector.</p>	<p>1. Low Noise is achieved in the following manner:            (i) 733 – MMIC used next to Pin Detector in a duly shielded casing.            (ii) 732 – BOIC Circuit as explained.</p>
<p>2. No Equaliser used to achieve Linearity. This result in intermodulation of channels.</p>	<p>2. Use of Equaliser for maintaining linearity.            (i) Low Freq – low gain            (ii) High Freq – high gain</p>
<p>3. Poor Sensitivity            With -6dB of optic input, an RF output of 98dB<math>\mu</math>V can only be achieved.</p>	<p>3. High Sensitivity            Extra Amplifier IC is used. For –6 dB optic input, the RF output is 105dB<math>\mu</math>V.</p>