



PDAS995 CATV Receiver

Nanovation's PDAS995 CATV receiver is capable of receiving all standard-definition and high-definition digital television formats. This receiver offers excellent performance and low distortion over a wide temperature range.

Features

- High linearity planar PIN chip
- 4:1 impedance-matched
- Excellent performance from low frequency to 880MHz over wide temperature ranges
- Electrical signal output impedance: 75Ω
- DIP 14-PIN package
- Wide operating wavelength 1310nm
- Low noise, low distortion
- Single mode FC connector

Application

- CATV

Specifications

Parameter	Test Condition	Value
Responsivity (A/W)	-10V,1310nm 10V, 1310nm	≥ 0.85
Dark current (nA)	-15V 15V	< 30
Reflection loss (dB)	1310nm	≥ 45
Frequency response (MHz)	75Ω	40 to 880
Transformer gain (dB)	75Ω , compared with no matcher	≥ 4
Gain ripple (dB)	75Ω	$< \pm 1$
CSO (dBc)	Bias voltage+10v, double frequency, m=0.4, single route P=0dBm	≤ -70
CTB (dBc)		≤ -80
Storage temperature (°C)		-40 to +80 -40 to +85
Operating temperature (°C)		-40 to +70

*Test condition: 59channel PAL-D loading, 15Km fiber, 0dBm receive power

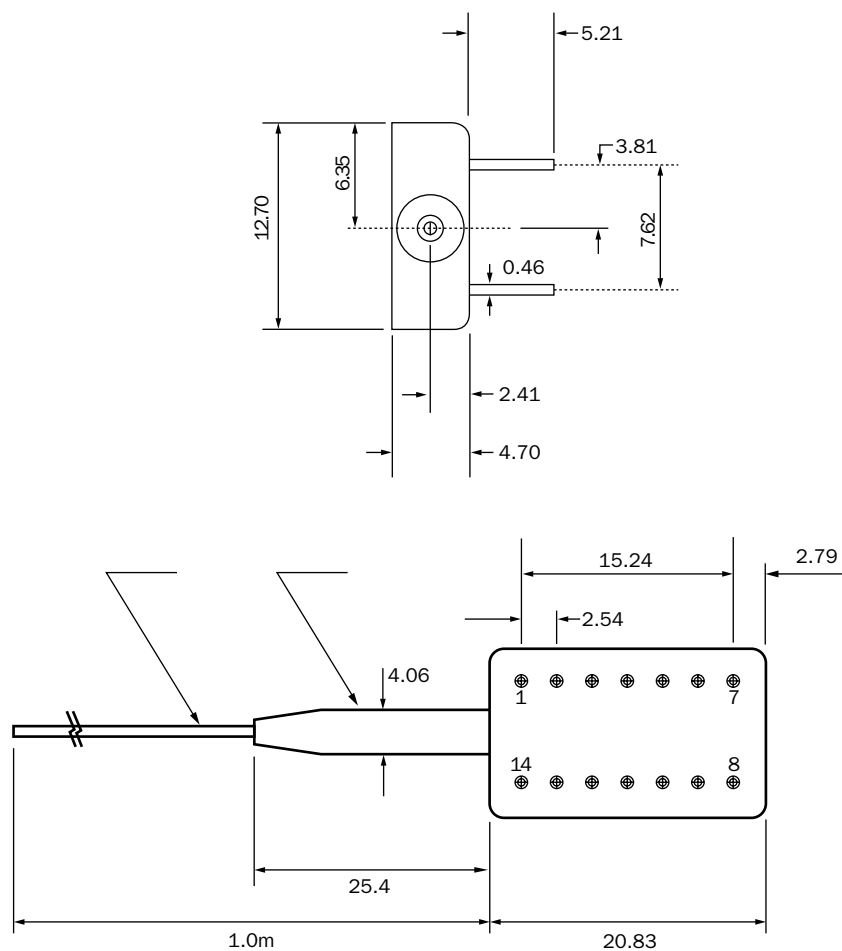


Absolute Maximum Ratings

Bias voltage (V)	25
Optical input power (dBm)	3
ESD threshold (V)	500
Lead soldering temperature (°C)	260
Lead soldering duration (s)	10
Fiber yield strength (kgf)	1

Mechanical Packaging Diagram (mm)

(All dimensions are in mm; drawings are not to scale.)



Pin Connectors

1,2	NC
9	RF output
11	Detector bias Voltage (+15)
Others	GND



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To order or for additional information, please contact us at:

Phone: 1-877-919-6266

Fax: 1-734-354-0934

Web: www.nanovation.com

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