



Genexis CATV modules

CATV-102, CATV-302, CATV-332

Datasheet

CATV-102 module with gain control

Genexis CATV-102 is a compact CATV module with GPIO based ON/OFF control and weak signal alarm function.

SC/APC receptacle input connector and F-connector for RF output. Designed for integration in the Genexis XG-family of managed L2 FTTH switches.

CATV-302 module for EG Fibertray

Genexis CATV-302 is a compact CATV module with monitoring functions and RF on/off switch.

CATV-302 provides a SC/APC receptacle connector for fiber input and both F-connector and IEC-connector for RF output signal. Designed for integration in the Genexis EG family fibertrays.

CATV-332 module for EG Fibertray

Genexis CATV-332 is a compact CATV module with monitoring functions and RF on/off switch.

CATV-332 provides a SC/APC receptacle connector for fiber input and both F-connector and IEC-connector for RF output signal. Designed for integration in the Genexis EG family fibertrays.

Key features

- 47 MHz~870 MHz frequency range
- F-female connector for CATV RF output
- AGC (automatic gain control)
- Aluminum Alloy metal shield
- Simplex SC / APC Connector

Key features

- 47 MHz~1000MHz bandwidth
- F-female and PAL connector and for CATV RF output
- High RF output level
- AGC supported
- Optical input power monitoring
- RF output level monitoring

Key features

- 47 MHz~1000 MHz bandwidth
- F-female and PAL connector and for CATV RF output
- High RF output level
- 2 low pass RF filter included
- AGC supported
- Optical input power monitoring
- RF output level monitoring



Product features and specifications

Genesis CATV modules

CATV-102 features

47MHz~870MHz frequency range
 F-female connector for CATV RF output
 AGC (automatic gain control)
 Aluminum Alloy metal shield
 Simplex SC / APC Connector
 Video RF signal output with 75 Ohm impedance
 Power ON / OFF control for GPIO
 +12V power input voltage
 Weak signal alarm function

General specifications

Operating temperature 0 - +70 °C
 Storage temperature -40 - +85 °C
 Soldering temperature max.+250 °C
 PSU voltage 12 VDC
 PSU current typ. 180 mA

CATV Receiver specifications

Center wavelength
 · min.: 1290 nm
 · typ.: 1550 nm
 · max.: 1580 nm
 Input power min -7 dB
 Frequency range 47-870 MHz
 Up tilt 2-7 dB
 Frequency response flatness -1.5 +1.5 dB
 RF output level 85 dBuV
 CNR 46 dB
 CTB/CSO 59 dBc
 RF output impedance 75 Ohm
 Output return loss 16 dB

CATV-302 features

47MHz~1000MHz bandwidth.
 F-female, (PAL connector CATV RF output)
 AGC supported.
 Optical input power monitoring.
 RF output level monitoring.
 Weak signal alarm LED.
 Power On / Off control with ModeStay memory.
 Aluminum Alloy metal shield.
 Simplex SC / APC receptacle
 I2C control interface.
 +12V power input voltage.
 RoHS compliance

General specifications

Operating temperature 0 - +70 °C
 Storage temperature -40 - +85 °C
 Soldering temperature max.+260 °C
 PSU voltage 12 VDC
 Power Consumption typ. 2 W

CATV Receiver specifications

Frequency bandwidth 47-1000 MHz
 Optical wavelength
 · min.: 1290 nm
 · typ.: 1550 nm
 · max.: 1580 nm
 Optical input power -10 to -2 dBm
 RF output level min 80dBuV@AGC 47MHz, OMI 3.5%
 Up tilt 3-7 dB
 Frequency response flatness -1.5 +1.5 dB
 CNR 48 dB
 CTB/CSO 60/65 dBc
 RF output impedance 75 Ohm
 Output return loss 14 dB
 Threshold optical power min. -10dBm

CATV-332 features

47MHz~1000MHz bandwidth.
 F-female, (PAL connector CATV RF output)
 AGC supported.
 Optical input power monitoring.
 RF output level monitoring.
 Weak signal alarm LED.
 Power On / Off control with ModeStay memory.
 Aluminum Alloy metal shield.
 Simplex SC / APC receptacle
 I2C control interface.
 +12V power input voltage.
 RoHS compliance
 2 low pass RF filter included

General specifications

Operating temperature 0 - +70 °C
 Storage temperature -40 - +85 °C
 Soldering temperature max.+260 °C
 PSU voltage 12 VDC
 Power Consumption typ. 2 W

CATV Receiver specifications

Frequency bandwidth 47-1000 MHz
 Optical wavelength
 · min.: 1290 nm
 · typ.: 1550 nm
 · max.: 1580 nm
 Optical input power -10 to -2 dBm
 RF output level min 80dBuV@AGC 47MHz, OMI 3.5%
 Up tilt 2-7 dB
 Frequency response flatness -1.5 +1.5 dB
 CNR 48 dB
 CTB/CSO 60/65 dBc
 RF output impedance 75 Ohm
 Output return loss 14 dB
 Threshold optical power min. -10dBm