



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
- 10 dB RF output attenuation over PAL connector
- 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
- 10 dB RF output attenuation over PAL connector
- 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
1 st RF output level	typ. 83 dBuV
2 nd RF output level	typ. 73 dBuV
Up tilt	2-7 dB
Frequency response flatness	-1.5 +1.5 dB
CNR	46 dB
CTB/CSO	60 dBc
RF output impedance	75 Ohm
Output return loss	16 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
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CATV Receiver specifications

Frequency bandwidth	47-1000 MHz
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Optical input power	-10 to -2 dBm
1 st RF output level	typ. 83 dBuV
2 nd RF output level	typ. 73 dBuV
Up tilt	3-7 dB
Frequency response flatness	-1.5 +1.5 dB
CNR	46 dB
CTB/CSO	60 dBc
RF output impedance	75 Ohm
Output return loss	16 dB
Threshold optical power	min. -10dBm