

Inteno CATV-102

A compact CATV module with automatic gain control



Inteno 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 Inteno XG-family of managed L2 FTTH switches.

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.



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Absolute Maximum Ratings

Parameter	Symbol	Min	Max	Units	Note
Storage Temperature	Tstg	-40	85	-	-
Operating Temperature	Topr	0	70	-	-
Soldering Temperature	TS	-	250	-	10 seconds on leads only

CATV Receiver Specifications (0 o C < Topr < 70 o C)

Parameter	Symbol	Min	Typ.	Max	Units	Note
Center Wavelength	λ_c	1290	1550	1580	nm	-
Input Power	PIN	-7	-	0	dBm	-
Frequency Range	F	47	-	870	MHz	-
Up tilt	-	2	-	7	dB	-
Frequency Response Flatness	-	-1.5	-	+1.5	dB	-
RF output level	-	-	85	-	dBuV	1
CNR	-	46	-	-	dB	2
CTB/ CSO	-	59	-	-	dBc	3
RF Output impedance	Ro	-	75	-	Ohm	-
Output return loss	RL	16	-	-	dB	4
Power Supply Voltage	Vcc	-	12	-	V	5
Power Supply Current	Ic	-	180	230	mA	-

Notes:

1. OMI=5%/ch@ 47MHz
2. At -7dBm.
3. CENELEC PAL 42 channels loading.
4. At 47MHz with -1.5dB/Oct
5. With +/- 10% tolerance as minimum and maximum.
6. LED lightened when optical input power is ≤ -10 dBm.



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