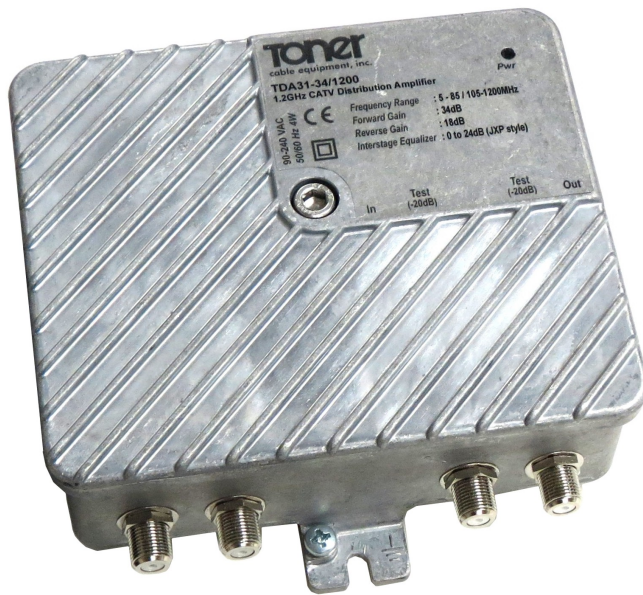


TDA31-34-1200 5-1200 MHz DOCSIS 3.1 Amplifier

34 dB Gain, 105-1200 MHz Forward, 18 dB 5-85 MHz Reverse

Features



- DOCSIS 3.1 Broadband Compatible
- 1.2 GHz Bandwidth
- 105-1200 MHz Forward Path
- GaAs E-pHEMT Hybrid
- 34 dB Gain
- 6 dB Noise Figure
- JXP Style Plug-in Pads & Equalizers
- 5-85 MHz Reverse
- 18 dB Reverse Gain
- 90-240 Volt Power Supply
- Die Cast Aluminum Housing

TDA31-34/1200 5-1200 MHz DOCSIS 3.1 Amplifier, 34 dB Gain 105-1200 MHz Forward, 18 dB 5-85 MHz Reverse

The Toner TDA31/34/1200DOCSIS is the newest amplifier in the Toner TDA series. This amplifier is designed for the latest DOCSIS 3.1 deployments. It features an expanded 5 to 85 MHz reverse path and a 105 to 1200 MHz forward path which meets the latest bandwidth requirements for deployment of DOCSIS 3.1 systems.

The TDA31/34/1200DOCSIS amplifier uses GaAs E-pHEMT hybrids which reduce distortion levels while providing a high 34/46 dBmV output level. With 34 dB of forward gain and 18 dB gain in the reverse band the amplifier is suited for just about any broadband system application such as CATV AV Systems, Apartments, Hospitals, Hotels or Motels and Sporting Venues, Stadiums, Arenas, Race Tracks, etc.

TDA31-34-1200 5-1200 MHz DOCSIS 3.1 Amplifier

	Forward	Reverse
Bandwidth	105-1200 MHz	5-85 MHz
Technology	GaAs E-pHEMT	Si-Bipolar
Average Full Gain	34 dB	18 dB
Flatness	±1 dB	±1 dB
Return Loss IN/OUT	-14 dB	-16 dB
Test Points, IN/OUT	In & Out: -20 dB	In & Out: -20 dB
Gain Control	JXP Plug-in	
Slope Control	JXP Plug-In (In & Mid Stage)	
Forward Distortions:	42 dBmV (54-1000 MHz) output level, 79 NTSC channels, digital at -6 dB after 550 MHz	
CTB	-59 dBc	
CSO	-64 dBc	
Xmod	-60 dBc	
Forward Distortions:	34/46 dBmV (54-1000 MHz) output level, 79 NTSC channels, digital at -6 dB after 550 MHz	
CTB	-63 dBc	
CSO	-66 dBc	
Xmod	-63 dBc	
Reverse Distortions:	48 dBmV flat output on each of CH T8 & T9 according to ANSI/SCTE115/2011	
DTO (on 7 & 25 MHz)		-75 dBc
DSO (on 6 & 32 MHz)		-60 dBc
Xmod		-75 dBc
Noise Power Ratio (NPR or CINR, dB, max)		64@ 24 dBmV input power
Input Dynamic Range @ NPR=41 dB		46 dB (-3.....43 dBmV)
Noise Figure (with 0 dB jumpers)	<6 dB	
Hum Modulation	<-80 dBc	
RFI Isolation	-90 dBc	
Surge Withstand IN/OUT	IEEE C62.41 Cat.A3 (6kV, 200A)	
Powering	90-240 VAC (optionally 24-65 from RF Input)	
Power Consumption	4 Watts	
Temperature	-30 to +55°C	
Enclosure	IP54 Category, Diecast Aluminum	
Dimensions	4.15 x 4.92 x 1.97 inches (105 x 125 x 50 mm)	
Weight	1.6 lbs (0.7 kg)	