Cable TV Trunk Amplifier CTA-1243UT-D

1.2GHz 204MHz GaAs GREEN POWER TECHNOLOGY IP65

Description:

Designed to satisfy requirements for building large cable TV network trunk lines and line extensions. It has been created using up-to date GaAs active components.

Hermetic casing protects the amplifier from environmental impact – dust and humidity.

Features:

- High power output stage type GaAs
- Easily upgradeable up to *204MHz*
- Three ports with power-feeding capabilities
- Input and output test ports for reverse channel alignment
- Surge protection on all I/O ports
- Coaxial line power-feeding(*option C*)
- Water-resistant hermetic housing (*IP65*) for outdoor mounting
- Mains power-feeding (*option M*)
- Power-up delay start

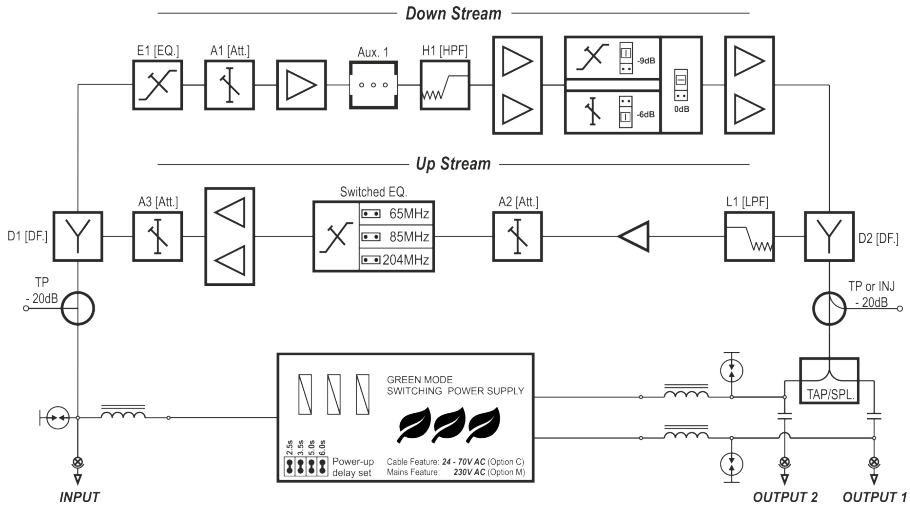
Technical Specifications	
DOWN Stream	
Bandwidth	47 ÷ 1218 MHz
Active Components	GaAs
Gain	43dB
Gain Flatness	± 0.5dB
Noise Figure	≤ 6dB
Return Loss	≥ 20dB / 75 Ω
Impedance Test Points	75Ω
Input Attenuator	0 ÷ 20dB / 1dB pitch
Input Cable Corrector	0 ÷ 20dB / 1dB pitch
Interstage Attenuator	0 dB or 6 dB
Interstage Equalizer	0 dB or 9 dB
Input/Output test ports	-20 ± 0.5 dB
Impedance	75Ω
Output level @ CTB ≥ 60dB	117dBµV
Output level @ CSO ≥ 60dB	117dBµV

Technical Specifications	
UP Stream	
Bandwidth	5 ÷ 65/85/204MHz
Gain	28 dB
Frequency Response	± 0.5 dB
Gain Flatness	± 0.75 dB
Noise Figure	≤ 6 dB
Return Loss	≥ 20dB
Return Loss on test point	≥ 20dB
Interstage Attenuator	0 ÷ 10 dB / 1 dB pitch
Output Attenuator	0 ÷ 20 dB / 1 dB pitch
Equalizer Plug-In	0 ÷ 20 dB / 1 dB pitch
Attenuator Plug-In	0 ÷ 20 dB / 1 dB pitch
Output test port	-20 ± 0.5 dB
Input test port (injector)	-20 ± 0.5 dB
Output level (IMD3rd ≥ 60)	119dBµV
Output level (IMD2nd ≥ 60)	115dBµV
Impedance	75Ω
Test Point Impedance	75Ω
BER @ 107dBµV [256QAM x24]	< 1.0E-09

Technical Specifications	
General Specifications	
Power Supply (Coaxial)	24 ÷ 70 VAC
Power Supply (Mains)	230VAC ± 10% / 47 ÷ 63 Hz
Power-up delay start (Coaxial option only)	2.5s; 3.5s; 5.0s; 6.0s
Power Consumption	15W
Pass-trough Current	≤7A AC
Hum Modulation	65dB / ≤6A AC
Operating Temperature	-40 ÷ 55°C
Dimensions	215 x 85 x 200 mm
Protection Level	IP65
Weight	1.85 kg
Number of Output Ports	2
Input/Output Connectors	PG11 on 5/8”
Test Point	F-Type
Group Delay (f > 15MHz)	≤1 nsec @ 1MHz BW
Transient Protection (kV, µs)	6, 1.2/50
Emission (dBpW)	< 20
Screening	> 85dB

CTA-1243UT Technical

CTA-1243UT Block Scheme



For more information contact us at office@dtk-electronics.com or +35929718511