

GWE1000 Indoor Multiple Dwelling Amplifier

GWE1000 is a cost-effective multiple dwelling amplifier designed for two-way Docsis 3.1 CATV applications. With adjustable attenuation and equalizer on both forward path and return path RF, GWE1000 offers high quality two-way RF for broadcasting TV and cable modem services.



Features

- Sheet Metal Housing with Aluminum Heat Sink
- Forward path 1000MHz RF gain 37dB
- Return path RF gain 27dB
- Duplexer for different bandwidth split
- Continuous 18dB adjustable equalizer, attenuator
- 6KV Surge Protection on all RF ports
- 90~240V AC power input
- -20dB test points at forward and return path

Specifications

Item	Forward	Return	Remarks
Frequency range (MHz)	54-1000	5-42MHz	85/102 and 204/258 Frequency Split available upon request
Flatness (dB)	±1.0	±0.75	
Reflection loss (dB)	≥14	≥14	
Average Full gain (dB)	37	27	
Attenuation (dB)	0~18	0~18	Continuously adjusted by trimpot
Equalizer (dB)	0~18	0~18	Continuously adjusted by trimpot
Reference Output Level (dBmV)	48	46	
CSO (dB)	65	-	33/48dBmV (15 dB Tilt 54/1000MHz) output level, 79 NTSC channels, digital at -6dB from550MHz up to 1 GHz
CTB (dB)	65	-	
Reverse Distortion: 46dBmV flat output, 2 Channel (13 & 19 MHz) according to ANSI/SCTE1152011			
DTO (dBc)	-	-75	on 7 & 25 MHz
DSO (dBc)	-	-60	on 6 & 32 MHz
Noise factor (dB)	8	8	
Group Delay (nS)	≤35	-	3.58 MHz Span
	-	≤35	1 MHz Span
Frequency response of monitor port (dB)	±1.0		
Working voltage (V/DC)	+24V, +8V and +5V		
Power Consumption (W)	<14		
Power Input (V/AC)	90V~240V 50/60Hz		
Connection	F		
Input & output resistances	75Ω		
Storage Temperature	-40°C-+85°C		
Working Temperature	-40°C-+60°C		
Dimension (mm)	152×160×58		
Weight	1.5 Kg		