

# Toner

## TIBA-30-1000

### 2 Way Broadband Distribution Amplifier

**Toner**  
cable equipment, inc.  
www.tonercable.com

#### **TIBA-' 0-1000 Two Way Indoor Broadband Amplifier 1 GHz with GaAs-Hybrid / Power Doubling Technology, 30 dB Gain**

##### Features:

- 54-1000 MHz forward path, 5-42 MHz reverse
- 30 dB forward gain, 24 dB reverse
- Plug-in attenuators and equalizers
- Variable gain and slope controls
- GaAs power doubling technology (forward)
- Separate UL listed universal power supply
- Extruded aluminum housing with heat sink for optimum heat dissipation



The Toner TIBA-30-1000 distribution amplifier is the latest addition to the Toner line of amplifiers.

The TIBA amp features high performance GaAs-Hybrid for improved performance and better distortion characteristics. The amplifier is supplied with internal 42/54 MHz diplex filters for 2 way operation. It has a forward gain of 30 dB and a reverse gain of 24 dB for use in 2 way systems. The amplifier features a plug-in forward attenuator, plug-in forward equalizer and adjustable interstage slope and gain controls. The reverse path has an adjustable gain control and a plug-in reverse attenuator. The amplifier is built in an extruded aluminum housing for heat dissipation. The housing features a removable cover for access to the pads and equalizers and also features gain and slope adjustments with the cover in place. Power is by use of a universal switch mode power supply (100-240 VAC/24 VDC).

**2 Way Broadband Distribution Amplifier**

**Specifications**

Forward Path	Return Path		
Technology	Power Doubling, GaAs, Hybrid		Push Pull, Si-Bipolar
Frequency Range	54-1000 MHz		5-42 MHz
Gain	30 dB		24 dB
Input Gain Control 0 to 20 dB in 1 dB steps	Plug-in, fixed value		0 to 18 dB variable
Second Stage Gain Control	0 to 10 dB variable, mid stage 0 to 20 dB in 1 dB steps		Plug-in, fixed value,
Input Slope Control 0 to 20 dB in 1 dB steps	Plug in, fixed value		NA
Second Stage Slope Control	0 to 10 dB variable, mid stage		NA
Input / Output Return Loss	16 dB		16 dB
Noise Figure	6 dB		6 dB
Channel Loading	79 ch analog	129 ch analog	151 ch analog
Output Level - dBmV	40/50	38/48	36/46
Composite Triple Beat (CTB) - dBc	-63	-65	-65
Composite Second Order (CSO) - dBc	-65	-66	-66
Crossmodulation (XMOD) - dBc	-62	-61	-60
Hum Modulation - dBc	-70		-70
Max Input Level (per channel w/o using fixed input attenuator)	30 dB @ 79 ch 28 dBmV @ 110 ch		
Optimum Input Level Range	17 dBmV to 22 dBmV		
Impedance	75 ohm		75 ohm
Input / Output Test Port Level	-30 ±1 dB		
Operating Temperature Range	-4°C to +130°F		
Input / Output Connectors	F type		
Surge Withstand (IN / OUT)	IEEEC 62.41 Cat. A3 (6kV, 200A)		
Power Requirement	Wall Power Transformer, Input = 90-240 VAC, 50-60 Hz, 1A Output =24 ±1 VDC, 1.00A		
Size (L x W x H)	7 3/4" x 6 1/3" x 3" (195 mm x 160 mm x 79 mm)		
Shipping Weight	6 lbs (1.8 kgs)		

Ordering Information - Plug In Accessories	
Attenuator Pads 1 GHz 0 to 20 dB in 1 dB steps	TBLE-9518-** (replace ** with dB value)
Forward Equalizer 1 GHz 0 to 20 dB in 1 dB steps	TBLE-MLEQ-** (replace ** with dB value)
Reverse Equalizer 1 GHz 0 to 12 dB in 1 dB steps	TBLE-9504-** (replace ** with dB value)