

TBLE-1035-42

TBLE-1035-42 2 Way CATV 35 dB Broadband Line Extender with GaAs-Hybrid / Power Doubling Technology, 35 dB Gain

The Toner TBLE-1035-42 Line Extender amplifier is the latest addition to the Toner Line of distribution amplifiers. The TBLE-1035-42 features high performance GaAs-Hybrid for improved performance and better distortion characteristics. The amplifier is built in a die cast Aluminum outdoor housing that has integral neoprene rubber weather gasket and a stainless steel mesh RFI gasket. The housing features an automatic switching mode power supply for line powering in the 30 to 90 VAC range. The amplifier features a 20 dB gain reverse amplifier for use in 2 way systems and can be ordered with one of 3 standard sub splits, 42/54 MHz, 55/70 MHz and 65/80 MHz. The diplex filters are the plug in type for easy field changes or repairs.



The amplifier is designed for flat operational gain at 35 dB with a reverse operational gain of 20 dB while providing superior performance. The forward bandwidth has an input equalizer along with plug in interstage equalization and plug in pads for level control. The reverse has post stage plug-in equalizer, a fixed plug in pad and 20 dB gain control. The plug in pads and EQ's are industry standard and compatible with Olson & Arris distribution amplifier accessories.

TBLE-9518** Attenuator pads are plug in devices used to balance the signal. ** Specify value when ordering

TBLE-MLEQ** Forward Equalizers are plug in devices used to compensate for the slope in cable. They are installed in the amplifier to balance the signal. ** Specify value when ordering

TBLE-9504** Plug-in Reverse Equalizers are plug in devices used to balance the reverse path signal in two-way amplifiers ** Specify value when ordering

**Available in 1 dB steps from 0 to 20 dB

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General

	Forward	Reverse
Bandwidth (42)	54-1000 MHz	5-42 MHz
Options (55)	70-1000 MHz	5-55 MHz
(65)	85-1000 MHz	5-65 MHz
Gain	35 dB	20 dB
Flatness	±0.75 dB	±0.5 dB
Return Loss In /Out	-16 dB	-16 dB
Test Ports	-20 dB	-20 dB
Gain Control	Plug in Pads	0-20 dB
Slope control	Plug in EQ	-

Performance @ Recommended Levels

(Temperature Range -40° to +60° C)

79 channels (NTSC) flat output	47/47dBmV	40dBmV
Composite Triple Beat (CTB)	-72 dBc	-82dBc
Composite Second Order (CSO)	-68 dBc	-64 dBc
Cross Modulation (X -MOD)	-61dBc	-70 dBc
Noise Figure	6dB	7dB+
79 channels (NTSC) 10 dB interstage slope	37/47 dBmV	40 dBmV
Composite Triple Beat (CTB)	-78 dBc	-82dBc
Composite Second Order (CSO)	-74 dBc	-64 dBc
Cross Modulation (X -MOD)	-65dBc	-70 dBc
Noise Figure	6dB	7dB+
Fwd Group Delay		
48.25-51.83 MHz	30ns	
55.25-58.83 MHz	30ns	
61.25-64.83 MHz	15ns	
Other	4ns	
85-86 MHz	10ns	
Reverse Group delay		
5-6 MHz		50ns
13-14 MHz		4ns
29-30 MHz		20ns
41-42 MHz		30ns
64-65 MHz		20ns

Power, Environmental

RFI 5-1000 MHz	-100 dB	
Hum Modulation 10A / 15A	-70 / -65 dB	
Surge	IEEE C62,41-1991 Cat. B3 combination Wave 6KV, 3KA	
AC Input	30-90 VAC	
Current	10 typ. 15 max Amps	
Power	13.0 Watts	1.5 Watts
Temperature	-40° to +60° C	
Weight	3.6 LBS / 1.6 KGS	