cable equipment, inc.
www.tonercable.com

TBLE-1035-42

2 Way Broadband Line Extender

TBLE-1035-42 2 Way CATV 1000 MHz 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

969 Horsham Road • Horsham, Pennsylvania 19044 USA • Phone: 215-675-2053 Fax: 215-675-7543 • info@tonercable.com

toner
cable equipment, inc.
www.tonercable.com

toner

TBLE-1035-42

2 Way Broadband Line Extender

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	

969 Horsham Road • Horsham, Pennsylvania 19044 USA • Phone: 215-675-2053 Fax: 215-675-7543 • info@tonercable.com