Taps & Passives



Multimedia Line Equalizer/Reverse Conditioner 870 MHz – 42/51 MHz Split

Description

The Multimedia Line Equalizer/Reverse Conditioner (LEQ/RC) is a by-product of the extensive reverse path studies that Scientific-Atlanta has been conducting. This analysis has conclusively determined that, by strategically attenuating the reverse path signals, systems are able to better support transmission in the challenging portion of the spectrum.

This reverse path attenuation has several key benefits. First, it raises the output levels of communicating devices (e.g., home communications terminals, cable modems and cable telephone NIUs) to the upper ends of their dynamic ranges, thereby increasing overall signal-to-noise performance. Second, by lowering their dynamic range variance, deployment of new services is simplified. Third, the additional reverse attenuation minimizes concerns about overdriving optical return transmitter lasers.



Features

- Fixed 9 dB forward equalizer
- Socket for Scientific-Atlanta 1 GHz plug-in attenuators
- Connection Beam non-interruptible AC/RF bypass maximized network availability during maintenance periods
- Equalizer in/out bypass enables reverse conditioning deployment network locations where forward equalization is not desired
- Twelve ampere current passing capability enables placement in all portions of the network
- · Faceplate contained circuit, compatible with existing Scientific-Atlanta line equalizer products
- Rugged, polymer-coated housing provides reliable performance in the most challenging of environments

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Typical Delay Forward (51-870 MHz)		Reverse (5-42 MHz)		
Freq. (MHz)	Delay (ns)	Freq. (MHz)	Delay (ns)	
55.25	11.5	5 - 7	41.0	
61.25	5.5	7 - 9	18.5	
67.25	3.0	9 - 11	9.0	
77.25	1.5	34 - 36	5.5	
-	-	36 - 38	8.0	
-	-	38 - 40	10.0	
-	-	40 - 42	17.0	

Notes:

1. Chrominance/Luminance at 3:58 MHz above the video carrier

2. Propagation delay in 2 MHz bandwidth

Ordering Information

Description	Part Number
Multimedia LEQ/RC (870 MHz – 42/51 MHz split)	714243

Plug-in Attenuators – (attenuators above 15 dB are not recommended)

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Value	Part Number.	Value	Part Number.	Value	Part Number.		
0 dB	574475	6 dB	574481	12 dB	574487		
1 dB	574476	7 dB	574482	13 dB	574488		
2 dB	574477	8 dB	574483	14 dB	574489		
3 dB	574478	9 dB	574484	15 dB	574490		
4 dB	574479	10 dB	574485	75 ohm	574496		
5 dB	574480	11 dB	574486				



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Part Number 714413 Rev D December 2003

