



1 Port Drop Amplifier with Upstream/Downstream Diplexer Filter

Product Specifications

Description

Multicom's 1 Port Drop Amplifiers with Upstream/Downstream Diplexer Filter are two-way 1.22GHz devices supporting DOCSIS 3.1 frequencies with an upstream and downstream split of 42/54MHz.

Long drops and excessive splitter losses benefit from advanced Gallium Arsenide (GaAs) technology delivering improved distortion and noise performances. Specifically designed for both indoor and outdoor applications with a 15 PSI water-tight seal, protective coating and capable of withstanding a 6kV surge for enhanced system reliability.



Features

- Forward bandwidth 54 to 1220 MHz for large broadband systems
- Return bandwidth 5 to 42 MHz accommodates interactive revenue generating services
- Ultra low 3dB noise figure supports clean distribution, reducing artifacts in digital signals and clearer analog pictures
- 6 kV surge protected output port to protect consumer equipment from transient voltages and line surges
- Output or dedicated power F-port capability provides powerful flexibility option for local or remote powering
- Surge and current protected external power supply for domestic and international use
- 1.22GHz Gallium Arsenide (GaAs) technology
- Power LED indicator
- 15 PSI watertight seal
- Compact, environmentally hardened design

MUL-DA-1A

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Parameter	Typical	Worst	Note
Forward			
Ports	1		
Gain (all ports) - 54-1220 MHz	15dB	13dB	Amp Powered
Flatness - 54-1220 MHz	±0.5dB	±1.0dB	
CTB	-75dBc	-70dBc	
CSO	-65dBc	-62dBc	
Noise Figure - 54-1220 MHz	3dB	4dB	
Group Delay - Any Channel	20ns		Span 4.43 MHz
Reverse			
Ports	1		
Gain - 5-42 MHz	10dB	9dB	Amp Powered
Flatness	±0.75dB		
DSO	-70dBc	-65dBc	
DTO	-60dBc	-57dBc	
Noise Figure	8dB		
Group Delay - 5-42 MHz	20ns		Span 1 MHz
Parameter	Typical	Worst	Note
Impedence	75 Ohm		
Return Loss - 5-42 / 54-1220 MHz	18dB	16dB	
Hum Modulation - 5-42 / 54-1220 MHz	-70dBc		
RFI	-100dBc		
Surge Withstand Capability	6kV 3kA, 8/20us Combo Wave IEEE 587 (C62.41-1991) Category B3 Standard		Fwd Input
	6kV 200A, 0.5-100KHz, Ring Wave IEEE 587 (C62.41-1991) Category A3 Standard		Fwd Output
Operating Temperature	-40 to +60°C (-40-160°F)		
DC Power Consumption - 12-15 VDC	280mA		
Waterproof - All F Ports	Withstands 15 PSI for 1 minute		
Dimensions (L x W x H)	112 x 97 x 29mm (4.4 x 3.8 x 1.1in)		

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