Amphenol Broadband Solutions®

Data Plus IPA2000DSL2-RSVFA-85 Mid-Split Amplifier Series

Description:

Data Plus Amplifiers include unique design features to increase reliability and decrease installation time. The unique DataComm™ feature set allows MoCA communication between the passive data port and all active output ports on the 2000 series Infinity Premise Amplifiers. CrossTalk™ allows MoCA to freely communicate between all RF outputs. Technicians no longer need to worry where they connect MoCA devices.

IPA2004DSL2-RSVFA-85

IPA2008DSL2-RSVFA-85

Features & Benefits:

- Uninterrupted VoIP Service
- 1-Passive VoIP / Cable Modem Data Port
- Power Failure Impeadance Protection
- No Mechanical Switches
- Unity Gain Forward and Reverse
- MoCA 2.0
- Mid-Split 85-102MHz
- Powder Coated True Flex Housing
- UL Approved

Applications:

Premise, Multi-Dwelling Units (MDU) and Business.

Additional Info:

Specifications

Forward	Units	Condition	IPA2004DSL2-RSVFA-85	IPA2008DSL2-RSVFA-85
Ports			4	8
Frequency Range	MHz		102 to 1002	102 to 1002
Gain	dB	102 MHz	0.0±1.0	0.0±1.0
Gain	dB	1002 MHz	0.0±1.0	0.0±1.0
Slope	dB	102 -1002 MHz	0.0±1.0	0.0±1.0
Frequency Response	dB p-p	102 -1002 MHz	≤1.0	≤1.0
Return Loss (Output)	dB	102 -1002 MHz	≥20	≥20
Return Loss (Input)	dB	102 -1002 MHz	≥20 (Power On or Off)	≥20 (Power On or Off)
Isolation	dB	102 -1002 MHz	≥25	≥25
Channel Loading		102 -1002 MHz	72 NTSC analog + Noise (551-1002MHz) @ -6dB	
Rated Input Level	dBmV	Flat	10	10
CTN	-dBc	10 dBmV in	≥55	≥55
CTB	-dBc	10 dBmV in	≥73	≥73
CSO	-dBc	10 dBmV in	≥62	≥62
XMOD	-dBc	10 dBmV in	≥65	≥65
Rated Output Level	dBmV	@CTB73, CSO62, XM65 dBc	≥18	≥18
HUM Modulation	-dBc	102 -1002MHz	≥70	≥70
Noise Figure	dB	Input NF less input losses	≤5	≤5
Group Delay	ns	EIA 97	≤30	≤30
Group Delay	ns	EIA 98	≤15	≤15
Group Delay	ns	All Other Channels	≤5	≤5
RF-to-Power Port Isolation	dB	5 - 1002 MHz	≥60	≥60
2nd Harmonic	-dBc	54-84 MHz @ 60dBmV	≥80	≥80

Reverse	Units	Condition	IPA2004DSL2-RSVFA-85	IPA2008DSL2-RSVFA-85
Frequency Range	MHz		5 MHz to 85 MHz	5 MHz to 85 MHz
Gain	dB	5-85 MHz	0.0±1.0	0.0±1.0
Frequency Response	dB p-p	5-85 MHz	≤1.0	≤1.0
Return Loss	dB	5-85 MHz	≥20	≥20
Isolation	dB	5-85 MHz	≥25	≥25
DSO @ 6 or 32 MHz	-dBc	55 dBmV Out @13&19 MHz	≥55	≥55
DTO @ 7 or 25 MHz	-dBc	55 dBmV Out @13&19 MHz	≥60	≥60
Rated Output Level	dBmV	@55 -dBc	≥55	≥55
Noise Figure	dB	Output NF less output losses	≤5	≤5

Customers are reminded they are SOLELY responsible for confirming that all products are properly installed and used in accordance with codes and regulations.

Additional Info:

Specifications

Passive Data Port	Units	Condition	IPA2004DSL2-RSVFA-85	IPA2008DSL2-RSVFA-85
Frequency Range	MHz		5 MHz to 1002 MHz	5 MHz to 1002 MHz
Frequency Response	dB p-p	5-1002 MHz	≤1.0	≤1.0
Insertion Loss	dB	5-400 MHz	≤4.0	≤4.0
Insertion Loss	dB	401-600 MHz	≤4.5	≤4.5
Insertion Loss	dB	601-1002 MHz	≤6.0	≤6.0
Insertion Loss	dB	1125-1675 MHz	≥35	≥35
Return Loss	dB	5 -1002 MHz	≥20	≥20
MoCA Isolation (1125 - 1675 MHz)				
Downstream In to Out Loss	dB	1125-1675 MHz	≥35	≥35
Upstream Out to In Loss	dB	1125-1675 MHz	≥35	≥35
Out to Out Loss	dB	1125-1675 MHz	≤30	≤35
Passive Data Port to Input	dB	1125-1675 MHz	≥35	≥35
Passive Data Port to Out	dB	1125-1675 MHz	≤30	≤30
Other				
Surge Withstand (All Ports)		IEEE C62.41	6kV A3 ring	6kV A3 ring
Surge Withstand (All Ports)		EEE C62.41	6kV B3 combo	6kV B3 combo
EMI	dB	5-1675 MHz	≥100	≥100
Dimensions	in (mm)	Length	4.91 (124.7)	5.91 (150.1)
Dimensions	in (mm)	Width	3.10 (78.7)	3.10 (78.7)
Dimensions	in (mm)	Depth	1.52 (38.6)	1.52 (38.6)
DC Current Consumption	ma	12-15VDC	280	300
Environmental				
Temperature	F (C)		-40° to 140° (-40 to +60)	-40° to 140° (-40 to +60)
Water Proof	psi		15	15

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